D.A.T.A.BOOK OF DISCONTINUED TRANSISTORS

1974-1975

10th EDITION

THIS D.A.T.A.BOOK VALID UNTIL AUGUST 1975

D.A.T.A. REFERENCE STANDARDS FOR INDUSTRY

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

To make maximum use of this D.A.T.A.BOOK, select the particular known-unknown situation below that defines your problem, and follow the instructions as indicated.

Refer to the current TRANSISTOR D.A.T.A.BOOK for the outline drawings called out in the technical sections of this book.

1	KNOWN: Type Number UNKNOWN: Manufacturer(s), Address(es) a. Turn to Type Number Cross-Index (see Table of Contents), and locate the subject type number. b. Note the 3- or 4-letter Manufacturer Code, e.g., TII, GESY, alongside the type number. c. Use the list of Manufacturers Codes, Names and Addresses in back of the book to identify the manufacturer.
2	KNOWN: Type Number UNKNOWN: Its Electrical Characteristics a. Turn to Type Number Cross-Index and locate the subject type number. b. Note the page and line number, e.g., 30-104, alongside the type number. c. Locate the type number as noted, in the technical sections.
3	KNOWN: Type Number UNKNOWN: Current Equivalents or Similar Types a. Turn to Type Number Cross-Index and locate the subject type number. b. Observe whether the subject type has been replaced by another type, and whether the replacement type is itself current (cur) or obsolete (obs). c. If the replacement type is obsolete, look for it in the Type Number Cross-Index of this book; if current, in the Type Number Cross-Index of the current TRANSISTOR D.A.T.A.BOOK. d. If no replacement type is indicated, turn to the technical section in this book and locate the subject type. Then turn to the corresponding section of the current TRANSISTOR D.A.T.A.BOOK, and survey the type numbers in that section to select a suitable replacement. (In doing this, use the sequencing parameters at the top corner of the page.)
4.	KNOWN: Type Number UNKNOWN: Outline Drawing a. Follow the instructions in Block 2 above. b. Observe the drawing number referenced in the last column. c. Locate the drawing in the current TRANSISTOR D.A.T.A.BOOK.

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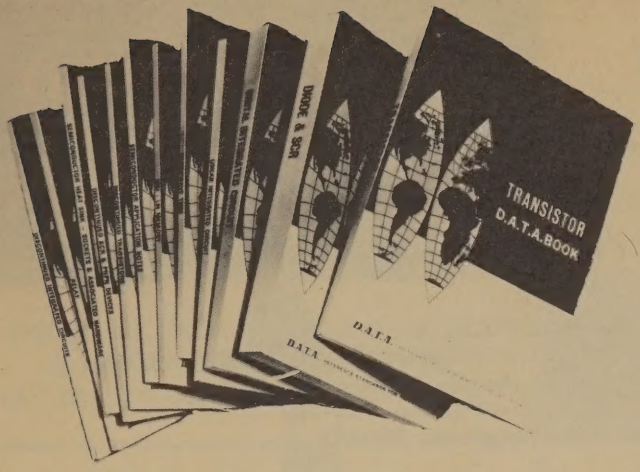

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. . . give you all the answers you need to the Sources, Electrical and Mechanical Specifications, and technical trade-offs . . . for all Industrial, Commercial, Government and JEDEC devices.

TRANSISTORS: Twelve (12) technical sections listing over 17,000 type numbers from 116 manufacturers, arranged for immediate comparison. . .plus, outline drawings, more than 455 MIL Spec type numbers, and the two most popular replacement series. Two (2) completely revised editions per yearly subscription.

DISCONTINUED TRANSISTORS: Facilitates substitutions when used with the Transistor D.A.T.A.BOOK. Lists over 8,700 types which have become obsolete since 1956. A "must" for complete replacement data. Published annually.

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THYRISTORS: Covers SCR's, TRIAC's, Schockley Diodes, Gate Turn-off devices, SCS's, Triggers, etc. The world's only comprehensive source of technical information from 76 worldwide manufacturers of Thyristors. Contains 15,800 types with lead designation and 440 outline drawings. Published semi-annually.

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NEW

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NEW

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MICROWAVE TUBES: Indexes 4,700 types from 34 manufacturers for military and commercial application. Includes BWTs, TWTs, Crossed-Field Amplifiers, Noise Generators, Helitrons, Klystrons, Magnetrons and Platinotrons, TRs and ATRs. Arranged in order of tube type, center frequency, power output and type number. Identifies QPL manufacturers and military specifications. Now includes 2,300 discontinued types. Published semi-annually.

RELAYS: Makes it possible to review, compare and select from the more than 8,100 devices approximately one (1) cubic inch or less in volume and compatible with semiconductor packaging requirements. Covers: Miniature Armature — Subminiature Armature — Dry Reed — Mercury-wetted Reed — Solid State — Hybrid and Time-delay relays. Shows pin connections and dimensioned outlines. Updated and published annually.

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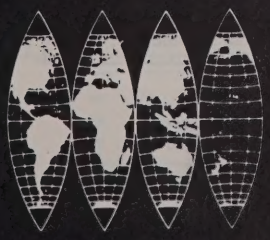

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IN TYPE No. CROSS-INDEX & TECHNICAL SECTIONS

△ ☑ % } Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same. This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the devices of one manufacturer with the devices of others.

RT ... Replacement Type; consult manufacturer.

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

▼ – New Type
♦ – Revised Specifications
– Non-JEDEC Type manufactured outside U.S.A.

TYPE No.

† – Switching type, also listed in Section 12
∅ – Chopper, also listed in Section 13, Category 10
* – These types also included elsewhere with other characteristics. See Type No. Cross Index for alternate line no.
§ – Radiation Resistant Devices, also listed in Section 13, Category 13.

STRUCTURE (All Sections Except 6 & 7)

A	–	Alloy
AN	–	Annular
D	–	Diffused or drift
DM	–	Diffused mesa
E	–	Epitaxial
EA	–	Epitaxial annular
EM	–	Epitaxial mesa
F	–	Fused
G	–	Grown
GA	–	Gallium Arsenide
H	–	Hometaxial
MA	–	Mico alloy
MD	–	Micro alloy diffused
ME	–	Mesa
MOS	–	Metal oxide silicon
PA	–	Precision alloy
PC	–	Point contact
PD	–	Precision alloy diffused
PE	–	Planar epitaxial
PL	–	Planar
S	–	Surface barrier
*	–	Matched pair
△	–	Switching, other uses
☑	–	Chopper, other uses
∅	–	Noise figure 8db or below
†	–	Plastic package
%	–	Overlay

2. GERMANIUM PNP | 3. GERMANIUM NPN | 4. SILICON PNP | 5. SILICON NPN – Low Power Transistors

3 LINE No.	TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M P MAX	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1			2		4	5			6	7	8	9	10	11	12	13	14	15			

1

∅ – With infinite heat sink
Following symbols indicate temperature at which derating starts:
† – 40°C ☑ – 60°C $ – 100°C
* – 45°C § – 70°C ♦ – Min.
# – 50°C △ – 85°C

2

† – $f_{\alpha e}$
§ – Gain bandwidth product (f_t)
* – Maximum frequency of oscillation
∅ – Figure of merit (frequency for unity power gain)
△ – Minimum
☑ – Maximum

3

∅ – With infinite heat sink

4

*	– 50-65°C	A	– Ambient
∅	– 70-80°C	C	– Case
#	– 85-100°C	J	– Junction
♦	– 110-125°C	S	– Storage
†	– 130-135°C		
$	– 140-165°C		
§	– 170-200°C		
▼	– Over 200°C		

5

– BV_{CEX} or punch-through
∅ – BV_{CES} ☑ – $BV_{ceo(sus)}$
§ – BV_{CER} * – Pulsed
$ – Indicates min. valves given for BV_{cbo}, BV_{ceo}, and BV_{ebo}.

6

– Pulsed or Peak
$ – Minimum

7

∅ – At V_{CB} < Max. V_{CB} (See Mfr. Spec.)
– I_{CEX} $ – Typical
§ – I_{CES} * – I_{CER}
† – At Temp. > 25°C △ – I_{CEO}
♦ – At Temp. 25°C Case

8

∅ – V_{CE}

9

∅ – I_C △ – I_B

10

† – h_{FE} △ – Minimum
# – Pulsed ☑ – Maximum
§ – h_{FC}
* – Available in selected ranges

11 12 13

b – h parameters are h_{ob}, h_{ib}, h_{rb}
☑ – Maximum

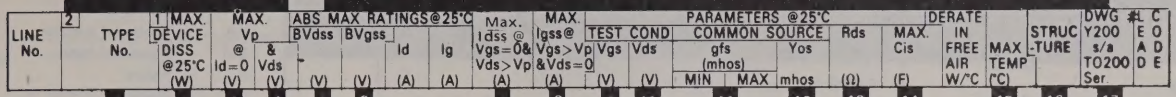
14

☑ – Maximum $ – C_{cb} † – C_{re}

15

$ – Tetrode
# – Radiation Resistant Device (Also See Above)

6. "P" Channel — 7. "N" Channel — SILICON FIELD EFFECT TRANSISTORS



1
▼ – Matched Type, also listed in Section 13, Category 6
♦ – Phototransistor, also listed in Section 13, Category 7 (See Above Also)

2
Δ – With infinite heat sink
† – Above 25°C; For additional information, consult manufacturer.

3
† – V_{GS}(Cut Off)
Δ – V_{GST}(Threshold)
% – Typical
# – Minimum

4
Δ – Depletion Mode, Type A
$ – Depletion-Enhancement Mode, Type B
* – Enhancement Mode, Type C

5
Δ – BV_{DSO}
† – BV_{DSX}

6
Δ – BV_{DGO}

7
Δ – I_{DSS} @ V_{GS} = 0 and $V_{DS} \approx V_P$
∅ – $V_{GS} > 0$
– Minimum
* – Typical
% – Pulsed

8
Δ – I_{GDO}

9
∅ – I_D in mA

10
Δ – V_{GD}
† – V_{DG}

11
Δ – Typical § – gfg
† – Pulsed
% – High Frequency (y_{fs})
☑ – Y_{FS}

12
Δ – Y_{is} § – Y_{og}
† – Not at given test conditions
% – Maximum
* – Pulsed

13
% – Maximum
Δ – Not given at test conditions
† – $R_{DS(on)}$ at V_{DS} = 0

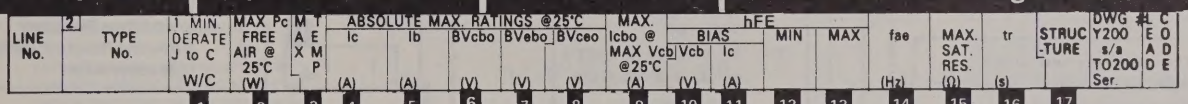
14
– C_{iss} (Output Shorted)
Δ – C_{dgs}
† – C_{gss}
% – Not given at test conditions
* – Typical
☑ – C_{dss}
∅ – C_{dgo} § – C_{igs}

15
A–Ambient J–Junction
C–Case S–Storage

16
STRUCTURE
D – Diffused
E – Epitaxial
Ge – GermaniumPE
PE – Planar Epitaxial
PL – Planar
– Junction Type
* – Insulated Gate (MOS Type)
§ – Matched pair or dual
Δ – Switching, other uses
☑ – Chopper, Other uses
∅ – Noise figure 8db or below
† – Plastic Package
H – Hometaxial
$ – Tetrode
% – Insulated Gate (MNOS Type)

17
☑ – Phototransistor Device
Δ – Tetrode Device
% – Composite Type

8. GERMANIUM PNP — 9. GERMANIUM NPN — 10. SILICON PNP — 11. SILICON NPN – High Power Transistors



1
† – 40°C ♦ – 80°C
* – 45°C $ – 100°C
# – 50°C ∅ – Free Air
☑ – 60°C ▼ – Typical Value
§ – 75°C Δ – > 100°C
Symbols indicate temperature at which derating starts.

2
∅ – With infinite heat sink
Following symbols indicate temp at which derating starts:
† – 40°C ☑ – 60°C ♦ – 80°C
* – 45°C § – 70°C Δ – Pulsed
# – 50°C $ – 100°C % – Min.
▼ – Power Output

3
* – 50-65°C A – Ambient
∅ – 70-80°C C – Case
– 85-100°C J – Junction
♦ – 110-125°C S – Storage
† – 130-135°C
$ – 140-165°C
§ – 170-200°C
▼ – Over 200°C

4
∅ – I_E $ – Minimum
– Pulsed or Peak
† – At temperature 25°C Case

5
∅ – I_E
– Pulsed
$ – Minimum

6 7
† – At Temp. 25°C Case
$ – Minimum

8
– BV_{CEX} or punch-through
∅ – BV_{CES} * – Pulsed
§ – BV_{CER} ☑ – $BV_{ceo(SUS)}$
$ – Minimum

9
∅ – At V_{CB} < Max. V_{CB} (see mfr. spec.)
– I_{CEX} * – I_{cer} Δ – I_{CEO}
§ – I_{CES} ♦ – At Temp. 25°C Case
$ – Typical † – At Temp. > 25°C

10
∅ – V_{ce}

11
Δ – I_E
∅ – I_B

12 13
† – h_{fe} * – Available to selected range narrower than indicated
# – Pulsed
∅ – Typical

14
– Rated max. operating frequency
† – $f_{\alpha b}$
§ – Gain bandwidth product (f_T)
* – Maximum frequency of oscillation
∅ – Figure of merit (frequency for unity power gain)
Δ – Minimum ☑ – Maximum

15
▼ – Typical Value # – Pulsed

16
☑ – Maximum
∅ – $t_d + t_r = T_{on}$
§ – t_s
# – t_f
† – $t_s + t_f = T_{off}$
* – $T_{on} + T_{off}$

17
$ – Tetrode
# – Radiation Resistant Device (Also see top of reverse side of card.)

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.
- ▼ – New Type
- ♦ – Revised Specifications
- # – Non-JEDEC type manufactured outside U.S.A.

TYPE No.
- † – Switching type, also listed in Section 12
- ∅ – Chopper, also listed in Section 13, Category 10
- * – These types also included elsewhere with other characteristics. See Type No. Cross Index for alternate line number.
- § – Radiation Resistant Devices, also listed in Section 13, Category 13.

STRUCTURE (All Sections Except 6 & 7)
- A – Alloy
- AN – Annular
- D – Diffused or drift
- DM – Diffused mesa
- E – Epitaxial
- EA – Epitaxial annular
- EM – Epitaxial mesa
- F – Fused
- G – Grown
- GA – Gallium Arsenide
- H – Hometaxial
- MA – Mico alloy
- MD – Micro alloy diffused
- ME – Mesa
- MOS – Metal oxide silicon
- PA – Precision alloy
- PC – Point contact
- PD – Precision alloy diffused
- PE – Planar epitaxial
- PL – Planar
- S – Surface barrier
- * – Matched pair
- △ – Switching, other uses
- ☑ – Chopper, other uses
- ∅ – Noise figure 8db or below
- † – Plastic package
- % – Overlay

12. SWITCHING TRANSISTORS

* THESE TYPES ALSO INCLUDED ELSEWHERE WITH OTHER CHARACTERISTICS SEE TYPE NO. CROSS INDEX FOR ADDITIONAL PAGE & LINE NO.

LINE No.	TYPE No.	fab (Hz)	MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	DESCRIPTION STRUCTURE P-PNP N-NPN	DESCRIPTION MAT	DESCRIPTION MAX. TEMP (°C)	DWG. No.	LEAD CODE
1	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		

1
- † – $f_{\alpha e}$
- § – Gain bandwidth product (f_T)
- * – Maximum frequency of oscillation
- ∅ – Figure of merit (frequency for unity power gain)
- △ – Minimum ☑ – Maximum

2 3
- $ – Charge storage time constant
- ▼ – Stored base charge – picocoulomb
- ♦ – Total switching time
- ∅ – $T_{on} = t_r + t_d$
- † – Typical Value

4 5
- ∅ – $T_{off} = t_s + t_f$
- † – Typical Value
- * – $T_{on} + T_{off} = td + tr + tf + ts$

6
- ∅ – With infinite heat sink

Following symbols indicate temperature at which derating starts:
- † – 40°C § – 70°C
- * – 45°C $ – 100°C or greater
- # – 50°C ♦ – 80°C
- ☑ – 60°C △ – Pulsed

7
- ∅ – V_{CE}

8
- ∅ – I_c
- △ – I_B

9
- † – h_{fe}
- # – Pulsed
- △ – Minimum
- ☑ – Maximum
- * – Available to selected range narrower than indicated
- § – Y_{fs} in millimho (FET's only). Bias values are V_{DS} & I_D

10
- § – R_{on} (FET's only)
- # – Pulsed

11
- ☑ – Maximum
- $ – C_{cb}
- § – C_{iss} (FET's only)

12
- † – r'bb

13
- $ – Tetrode
- N – NPN or "N" Channel
- P – PNP or "P" Channel
- § – Field Effect Transistor
- # – Radiation Resistant Device (See above also)

14
- Ge – Germanium
- Si – Silicon

15
- A – Ambient
- C – Case
- J – Junction
- S – Storage

13. MISCELLANEOUS TRANSISTORS

LINE No.	TYPE No.	USE	CATEGORY STRUCTURE	MAT	DWG. No.	LEAD CODE	DESCRIPTION
	2	1		3			4

1
- 1 – Avalanche Mode
- 2 – Bi-directional
- 3 – Field Effect
- 4 – Hook Collector
- 5 – Complementary Symmetry (PNP & NPN) Matched Pair
- 6 – Matched Pair
- 7 – Phototransistor
- 8 – Tetrode
- 9 – Unijunction: N–N-type emitter (P-type Base) P–P-type emitter (N-type Base)
- 10 – Chopper
- 11 – Unmatched Composite (Dual)
- 12 – Cryogenic
- 13 – Radiation Resistant Devices
- 14 – Pressure Sensitive
- 15 – Transistor chips
- 16 – Darlington
- 17 – Microwave

2
- N – NPN or N Channel
- P – PNP or P Channel (See above also)

3
- Ge – Germanium
- Si – Silicon

4
- See "TECHNICAL TERM DEFINITIONS" Section

TECHNICAL TERM DEFINITIONS

B — Illumination intensity.

BV_{CBO} $V_{(BR)CBO}$ — Breakdown voltage, collector-to-base; emitter open-circuit.

BV_{CEO} $V_{(BR)CEO}$ — Breakdown voltage, collector-to-emitter; base open-circuit.

BV_{CER} $V_{(BR)CER}$ — Breakdown voltage, collector-to-emitter; with specified base-to-emitter resistance.

BV_{CES} $V_{(BR)CES}$ — Breakdown voltage, collector-to-emitter; with base short-circuit to emitter.

BV_{CEX} $V_{(BR)CEX}$ — Breakdown voltage, collector-to-emitter; with specified circuit between base and emitter.

BV_{DGO} $V_{(BR)DGO}$ — Breakdown voltage, drain-to-gate; source open circuit (FET).

BV_{DSX} $V_{(BR)DSX}$ — Breakdown voltage, drain-to-source; with specified circuit between gate and source (FET).

BV_{EBO} $V_{(BR)EBO}$ — Breakdown voltage, emitter-to-base; collector open-circuit.

BV_{GD} $V_{(BR)GD}$ — Breakdown voltage, gate-to-drain (FET).

BV_{GDS} $V_{(BR)GDS}$ — Breakdown voltage, gate-to-drain; with source short-circuit to drain (FET).

BV_{GSS} $V_{(BR)GSS}$ — Breakdown voltage, gate-to-source, with drain short-circuit to source (FET).

C_{ob} — Output capacitance with input AC open-circuit, common base.

C_{iss} — Small-signal, short-circuit input capacitance, common source (FET).

C_{rss} — Magnitude of small-signal, short-circuit reverse transfer capacitance, common source (FET).

f_{α_b} f_{hfb} — Small-signal short-circuit forward current transfer ratio cut off frequency, common base (alpha cut off frequency).

f_{α_e} f_{hfe} — Small-signal short-circuit forward current transfer ratio cut off frequency, common emitter (beta cut off frequency).

f_t — Extrapolated unity gain frequency (gain bandwidth product). Product of the common-emitter current transfer ratio and the frequency of measurement at a frequency where the current gain is decreasing at the rate of 6 db per octave. This frequency is also known at the Transition Frequency.

g_{fs} — Common source forward transconductance (FET).

h_{FE} — DC forward current transfer ratio, common emitter.

h_{fe} — Small signal forward current transfer ratio, common emitter.

h_{ib} — Small signal value of the short-circuit input impedance, common base.

h_{ie} — Small signal value of the short-circuit input impedance, common emitter.

h_{ob} — Small signal value of the open-circuit output admittance, common base.

h_{oe} — Small signal value of the open-circuit output admittance, common emitter.

h_{rb} — Small signal value of the open-circuit reverse voltage transfer ratio, common base.

h_{re} — Small signal value of the open-circuit reverse voltage transfer ratio, common emitter.

I_B — Base current, DC.

$I_{B(Sat)}$ — Base saturation current.

$I_{B2(mod)}$ — Interbase modulated current (UJT).

I_C — Collector current, DC.

$I_{C(Sat)}$ — Collector saturation current.

I_{CBO} — Collector cutoff current, DC, emitter open-circuit.

I_{CES} — Collector cutoff current, DC, with base shorted to emitter.

I_{CEX} — Collector cutoff current, DC, with specified circuit between base and emitter.

I_D — Drain Current, DC (FET).

$I_{D(On)}$ — "On" drain current (FET).

I_{DSS} — Drain current at zero gate voltage (FET).

I_E — Emitter current, DC.

I_{EB20} — Emitter reverse current, base-one open-circuit, DC (UJT).

I_{CEO} — Collector cutoff current with base open-circuit

I_{CER} — Collector cutoff current with external base-to-emitter resistance

I_G — Gate current, DC (FET).

I_{GSS} — Gate source reverse current at zero drain-to-source voltage (FET).

I_{off} — Offset current, DC (FET).

I_P — Peak point emitter current (UJT).

$I_{P(3)}$ — Third order intercept point

I_V — Valley point emitter current (UJT).

n — Intrinsic standoff ratio (UJT).

NF — Noise factor or noise figure.

λ_s — Wave length of maximum sensitivity.

P_c — Collector power dissipation.

P_d — Power dissipation.

P_o — Power output.

P_{o1db} — Power output at 1.0 db compression point.

P_T — Total power dissipation.

R_{BBO} — Interbase resistance, with emitter open circuit.

$r_{ds(on)}$ — Drain-to-source bulk resistance (FET).

t_d — Delay time.

t_f — Fall Time

t_{off} — Turn-off time = $t_s + t_f$.

t_{on} — Turn-on time = $t_d + t_r$.

t_r — Rise time.

t_s — Storage time.

S_{RCE} — Collector-emitter radiation sensitivity.

S_{ICE} — Collector-emitter illumination sensitivity.

V_{BE} — Base-to-emitter voltage, DC.

V_{B2E} — Base-two-to-emitter voltage, DC (UJT).

V_{B2B1} — Interbase voltage, DC (UJT).

$V_{BE(Sat)}$ — Base-to-emitter saturation voltage.

V_{CB} — Collector-to-base voltage, DC.

V_{CBO} — Collector-to-base voltage, DC, emitter open.

V_{cc} — Supply Voltage.

V_{CE} — Collector-to-emitter voltage, DC.

$V_{CE(sat)}$ — Collector-to-emitter saturation voltage.

V_{CEO} — Collector-to-emitter voltage, DC, base open.

V_{DS} — Drain-to-source voltage (FET).

V_{EB1} — Emitter-to-base one voltage, DC (UJT).

V_{EBO} — Emitter-to-base voltage, DC, collector open.

$V_{EB1(Sat)}$ — Emitter saturation voltage (UJT).

V_{GS} — Gate-to-source voltage, DC (FET).

$V_{GS(off)}$ — Gate-to-source cutoff voltage (FET).

$V_{GS(th)}$ — Gate-to-source threshold voltage (FET).

V_{OB1} — Base-one peak pulse voltage (UJT).

V_{off} — Offset voltage.

V_p — Peak point emitter voltage (UJT).

V_p — Drain-to-source pinch-off voltage (FET).

V_v — Valley point emitter voltage (UJT).

Y_{FE} — DC forward transmittance with output short-circuit

Y_{fs} — Magnitude of small signal, short-circuit forward transadmittance, common source (FET).

Y_{FS} — DC Forward transadmittance (FETS)

Y_{os} — Magnitude of small signal, short-circuit output admittance, common source (FET).

CHOPPERS

$V_{(off)}$ — Emitter offset voltage.

$I_{(off)}$ — Emitter offset current.

$h_{FE\ (inv)}$ — DC current gain, inverted connection.

R_d — Inverted dynamic saturation resistance.

$r_{s(on)}$ — "On" series resistance.

DOUBLE COLLECTOR DEVICES

V_{C1C2} — Collector one-collector two voltage.

FOR DOUBLE EMITTER CHOPPER DEVICES

V_{E1BO} or V_{E2BO} — Emitter-to-base voltage, DC, collector open.

V_{E1CO} or V_{E2CO} — Emitter-to-Collector voltage, DC, base open.

V_{E1E2} or V_{E2E1} — Emitter one-emitter two offset voltage.

I_{E1E2O} — Emitter cutoff current.

MATCHED PAIRS

NOTE:

a. For all matching parameter ratios one (1) is always the smaller of the two (2) value of the parameter.

b. For differential values, if one (1) is always the smaller of the two (2) value, the differential is a negative number.

h_{FE1}/h_{FE2} — DC current gain ratio.

$V_{BE1} - V_{BE2}$ — Base-emitter differential voltage.

$\Delta V_{BE1} - V_{BE2} / \Delta T$ — Base-emitter differential voltage change due to a change in temperature.

I_{DSS1}/I_{DSS2} — Zero gate voltage-drain current ratio.

g_{m1}/g_{m2} — Transconductance ratio.

$|V_{GS1} - V_{GS2}|$ — Gate-source differential voltage.

$\Delta V_{GS1} - V_{GS2} / \Delta T$ — Gate-source differential voltage change due to a change in temperature.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
0T3	THCF	75 - 10
1B1055	GESY	none
Repl.by D11B1055 Cur.		
1G2	THCF	75-102
JAN1N4378	none	126 - 40
1T3	THCF	75 - 11
2AD140	MULB	123 - 17
2AD161	RTCF	123 - 18
2ASZ15	RTCF	123 - 19
2AT128	SERA	123 - 20
2AT329	SERA	123 - 21
2AT331	SERA	123 - 22
2BC138	SGAI	123 - 23
2BC143	SGAI	123 - 24
2BC144	SGAI	123 - 25
2BC221	SGAI	123 - 26
2BC222	SGAI	123 - 27
2BD117	SGAI	123 - 28
2CY31	TIIB	48 - 24
2CY32	TIIB	48 - 27
2CY34	TIIB	48 - 29
2CY38	TIIB	50 - 70
2CY39	TIIB	50 - 71
2G2	THCF	75-103
2G101	SGAI	35 - 95
	TIIB	
2G102	SGAI	35 - 96
	TIIB	
2G103	TIIB	39 - 80
		120 - 24
2G104	TIIB	39 - 81
		119 - 65
2G106	TIIB	39 - 65
		117-109
2G108	SGAI	37 - 88
2G109	SGAI	37 - 93
2G110	TIIB	42-104
2G138	SGAI	41 - 54
2G139	SGAI	41 - 60
2G140	SGAI	41 - 68
2G141	SGAI	41 - 72
2G201	SGAI	37 - 89
2G202	SGAI	37 - 94
2G210	TIIB	86 - 9
2G220	TIIB	84 - 62
2G221	TIIB	84 - 63
2G222	TIIB	84 - 64
2G223	TIIB	84 - 65
2G224	TIIB	84 - 66
2G225	TIIB	84 - 67
2G226	TIIB	84 - 68
2G227	TIIB	84 - 69
2G228	TIIB	84 - 70
2G229	TIIB	84 - 71
2G230	TIIB	84 - 72
2G231	TIIB	84 - 73
2G240	TIIB	80 - 66
2G270	SGAI	42 - 37
2G271	SGAI	42 - 38
2G301	SGAI	31 - 63
	TIIB	
2G302	SGAI	39 - 7
	TIIB	
2G303	TIIB	41 - 37
2G304	TIIB	41 - 73
2G306	TIIB	41 - 78
2G308	TIIB	38 - 78
2G309	TIIB	39 - 25
2G319	SGAI	42 - 6
	TADI	
2G320	SGAI	42 - 12
	TADI	
2G321	SGAI	42 - 22
	TADI	
2G322	SGAI	38 - 73
	TADI	
2G323	SGAI	38 - 84
	TADI	
2G324	SGAI	38 - 85
	TADI	
2G339A	TIIB	45 - 43
2G344	TIIB	39 - 26
2G345	TIIB	38 - 96
2G371	TIIB	38 - 97
2G374	TIIB	38 - 98
2G376	TIIB	38 - 99
2G377	TIIB	38-100
2G381	TIIB	42 - 51
2G382	TIIB	42 - 52
2G383	TIIB	42 - 53
2G384	TIIB	42 - 54
2G385	TIIB	42 - 55
2G386	TIIB	42 - 56
2G387	TIIB	42 - 57
2G394	SGAI	38 - 86
2G395	SGAI	39 - 1
	TADI	114-108
2G396	SGAI	39 - 13
		115 - 18
2G397	SGAI	39 - 27
	TADI	115 - 48
2G398	SGAI	38 - 61
	TADI	
2G401	SGAI	41 - 83
	TIIB	
2G402	SGAI	41 - 84
	TIIB	
2G403	TIIB	41 - 85
2G404	TIIB	41 - 82
2G413	TIIB	35 - 78
2G414	TIIB	35 - 80
2G415	TIIB	35 - 81
2G416	TIIB	35 - 82
2G417	TIIB	35 - 77
2G508	SGAI	38 - 94
2G509	SGAI	38 - 95
2G524	SGAI	42 - 7
	TADI	114 - 47
2G525	SGAI	42 - 13
	TADI	114 - 53
2G526	SGAI	42 - 18
	TADI	114 - 61
2G527	SGAI	42 - 23
	TADI	114 - 64
2G577	SGAI	42 - 14
	TADI	
2G601	SGAI	41 - 55
2G602	SGAI	41 - 66
2G603	SGAI	39 - 17
		115 - 23
2G604	SGAI	39 - 16
		115 - 21
2G605	SGAI	39 - 18
	TADI	115 - 22
2G1024	SGAI	42 - 8
	TADI	114 - 48
2G1025	SGAI	42 - 15
	TADI	114 - 54
2G1026	SGAI	42 - 19
	TADI	114 - 62
2G1027	SGAI	42 - 24
	TADI	114 - 65
2N21	ΔWEC	36 - 46
2N21A	WEC	36 - 47
2N22	ΔWEC	36 - 19
2N23	WEC	32 - 52
2N24	ΔWEC	36 - 20
2N25	ΔWEC	41 - 64
2N26	ΔWEC	34 - 66
2N27	WEC	none
Repl.by 2N29 Obs.		
2N28	WEC	44 - 99
2N29	ΔWEC	44-106
2N30	ΔGESY	35 - 24
2N31	ΔGESY	35 - 35
2N32	ΔRCAS	29 - 14
	CLE	
2N32A	ΔRCAS	29 - 15
2N33	ΔRCAS	28 - 5
2N34/5	SYL	38 - 28
2N35/5	SYL	45 - 28
2N38A	ΔCBS	28 - 71
2N41	ΔRCAS	28 - 72
2N46	ΔRCAS	28 - 73
2N47	ΔPHIL	28-110
2N48	ΔPHIL	29 - 1
2N49	ΔPHIL	29 - 2
2N50	ΔCLE	29 - 16
2N51	ΔCLE	34 - 89
2N52	ΔCLE	36 - 21
2N53	ΔCLE	35 - 46
2N54	ΔWESY	40 - 80
2N55	ΔWESY	40 - 81
2N56	ΔWESY	40 - 82
2N57	ΔMIN	80-106
2N62	ΔPHIC	28 - 74
2N66	ΔWEC	81 - 8
2N67	ΔWEC	123 - 7
2N68	ΔSYL	78 - 80
	GEM	
2N71	ΔWESY	78 - 1
2N72	ΔRCAS	29 - 35
2N73	ΔWESY	40 - 68
2N74	ΔWESY	40 - 69
2N75	ΔWESY	40 - 70
2N76	ΔGESY	29 - 5
2N79	ΔRCAS	28 - 29
2N80	ΔCBS	43 - 90
2N81	ΔGESY	28 - 75
2N82	ΔCBS	28 - 19
2N83A	TEC	79 - 5
2N84	TEC	79 - 6
2N84A	TEC	79 - 7
2N96	ΔRCAS	43 - 91
2N97A	ΔBOG	44 - 26
2N98A	ΔBOG	44 - 28
2N100	ΔBOG	44 - 1
	SOD	
2N101	ΔSYL	78 - 81
CBS	GEM	
2N102	ΔSYL	87 - 6
CBS	GEM	
2N109/2N217E	QAMP	37 - 17
	APX	
2N109/5	SYL	37-100
2N110	ΔWEC	41 - 44
2N115	ΔAPX	84 - 8
	AMP	
2N123/5	STC	39 - 14
	SYL	115 - 15
2N127	ΔTII	44 - 31
JAN2N129	SPR	27-105
2N138A	ΔRTN	37 - 81
2N138B	ΔRTN	27 - 1
2N141	ΔSYL	78 - 82
	GEM	
2N142	ΔSYL	87 - 7
CBS	GEM	
2N143	ΔSYL	78 - 83
CBS	GEM	
2N144	ΔSYL	87 - 8
CBS	GEM	
2N148	TII	44 - 49
2N148A	TII	44 - 50
2N149	TII	44 - 51
2N149A	TII	44 - 52
2N150	TII	44 - 53
2N150A	TII	44 - 54
2N157	ΔCBS	79 - 99
2N157A	ΔCBS	79-100
2N159	ΔSPR	33 - 3
		114 - 44
JAN2N174	DEL	84 - 9
MOTA	RCAS	
2N179	ΔMOTA	84 - 10
2N195	TEC	35 - 12
2N196	TEC	35 - 8
2N197	TEC	35 - 7
2N198	TEC	35 - 6
2N199	TEC	35 - 2
2N200	TEC	35 - 13
2N204	TEC	44 - 86
2N205	TEC	44 - 84
2N214MP	GEM	123 - 29
2N217EQ	APX	37 - 18
2N222	GTC	30 - 88
2N230	ΔMAL	78 - 2
2N234	ΔSOD	81 - 9
2N235	ΔSOD	81 - 10
	CLE	
2N236	ΔSOD	81 - 11
	BACE	
2N247	ΔRCAS	33 - 57
GEM	SYL	
2N247/33	SYL	36 - 22
2N248	ΔTII	28 - 6
	ETC	
2N258	ΔRTN	47 - 68
2N259	ΔRTN	47 - 69
2N260	ΔCLE	47 - 30
2N260A	ΔCLE	47 - 31
2N261	ΔCLE	47 - 32
2N262	ΔCLE	47 - 34
2N262A	ΔCLE	47 - 35
2N266	ΔGESY	31 - 17
2N267	ΔRCAS	28 - 32
JAN2N274	RCAS	33 - 58
2N285	ΔSOD	81 - 12
	BACE	
2N290	ΔDEL	83 - 61
2N299	ΔPHIL	27 - 47
	SPR	
2N300	ΔPHIL	27 - 46
	SPR	
JAN2N300	none	28 - 53
2N301B	ITT	85 - 52
2N301G	ITT	85 - 53
2N301W	ITT	85 - 54
2N313	GESY	44 - 56
2N314	GESY	44 - 57
2N318	ΔGTC	126 - 41
2N325	ΔSYL	79 - 15
	GEM	
2N327	ΔRTN	49 - 8
	TII	
2N328	ΔRTN	49 - 9
STC	TII	
2N329	ΔRTN	49 - 11
2N330	ΔRTN	49 - 10
JAN2N332	TII	54-106
JAN2N334	TII	55 - 20
2N347	BOG	70 - 93
2N348	BOG	70 - 94
2N349	BOG	70 - 95
2N352	ΔPHIL	79-101
2N353	ΔPHIL	80 - 74
2N354	ΔPHIL	46 - 70
2N370/33	SYL	33 - 59
2N371	GEM	33 - 60
RCAS	SERA	
	SYL	
2N371/33	SYL	33 - 61
2N372/33	SYL	33 - 62
2N374	RCAS	33 - 63
2N384/33	SYL	37 - 1
2N386	ΔPHIL	81 - 13
2N387	ΔPHIL	81 - 14
2N389/I	STC	104 - 15
2N389A/I	STC	104 - 16
2N391	DEL	83 - 62
JAN2N398	GIC	none
MOTA	RCA	
Repl.by JAN2N398A Cur.		
2N421	BACE	81 - 15
2N424/I	STC	104 - 17
2N424A/I	STC	104 - 18
JAN2N431	none	55 - 26
JAN2N432	none	55 - 27
JAN2N433	none	55 - 28
2N451	GESY	105 - 80
2N452	GESY	105 - 81
2N453	GESY	105 - 82
2N454	GESY	105 - 83
JAN2N456A	DEL	none
ITT	SOD	
	TII	
Repl.by JAN2N456B Cur.		
JAN2N457A	DEL	none
ITT	SOD	
	TII	
Repl.by JAN2N457B Cur.		
JAN2N458A	DEL	none
ITT	SOD	
	TII	
Repl.by JAN2N458B Cur.		
2N462	ΔPHIL	38 - 29
	ETC	
2N463	ΔWEC	81 - 16
	STC	113 - 44
2N468	CBS	87 - 10
	GESY	
2N477A	TEC	57 - 76
2N478A	TEC	57 - 72
JAN2N489	GESY	126-106
	TII	
JAN2N490	GESY	126-107
	TII	
JAN2N491	GESY	126-108
	TII	
JAN2N492	GESY	126-109
	TII	
JAN2N493	GESY	126-110
	TII	
JAN2N494	GESY	127 - 1
	TII	
JAN2N495	PHIL	46 - 59
2N495/18	SPR	46 - 60
JAN2N496	PHIL	46 - 58
		115 - 8
2N496/18	SPR	46 - 73
		116 - 11
2N501/18	SYL	39 - 60
		117 - 50
2N509	WEC	42 - 32
2N528	WEC	79-102
		112 - 75
JAN2N528	none	78 - 52
2N534	ΔPHIL	27 - 49
ETC	NSC	
2N537	WEC	42 - 68
2N541A	TEC	57 - 71
2N544	ΔRCAS	33 - 64
GEM	SYL	
2N544/33	SYL	33 - 65
2N559	ΔWEC	39-104
ETC	TII	120-101
JAN2N559/1	MOTA	none
Repl.by JAN2N559 Cur.		
JAN2N559/2	MOTA	none
Repl.by JAN2N559 Cur.		
JAN2N559/3	MOTA	none
Repl.by JANTX2N559 Cur.		
2N577	ΔMULB	126 - 42
2N591/5	STC	28-103
	SYL	
JAN2N604M	none	none
Repl.by JAN2N604 Cur.		
2N623	TII	28 - 54
2N624	ΔSYL	35 - 59
ETC	GEM	
2N625	ΔSYL	87 - 15
	GEM	112 - 76
2N626	ADV	128 - 27
2N640	SEM	33 - 98
2N641	SEM	33 - 99
2N642	SEM	33-100
2N643	SEM	36 - 88
		116 - 12
2N644	SEM	36-101
		116 - 90
2N645	RCAS	36-104
		117 - 29
2N646	RCA	44 - 79
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK Obs-In this book

Δ-Registered with JEDEC by this manufacturer

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2SA281	MATJ	36-108
2SA282	♦TOSJ	38 - 88
2SA283	♦TOSJ	39 - 4
2SA284	♦TOSJ	39 - 19
2SA285	NECJ	29 - 43
2SA286	NECJ	29 - 46
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK Obs-In this book

△-Registered with JEDEC by this manufacturer

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2SA302	MATJ	34 - 55
2SA303	MATJ	34 - 56
2SA304	♦TOSJ	30 - 72
2SA305	♦TOSJ	30 - 76
2SA306	YECJ	33 -110
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2SA308	MATJ	34 - 63
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2SA312	♦TOSJ	39 - 55
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2SA313	♦TOSJ	30 - 21
2SA314	♦TOSJ	30 - 22
2SA315	♦TOSJ	30 - 27
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2SA339	MATJ	29 - 39
2SA340	MATJ	30 - 69
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2SA346	MITJ	30 - 40
2SA347	MITJ	30 - 41
2SA348	MITJ	30 - 38
2SA349	MITJ	30 - 32
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2SA354A	HITJ	33 - 68
2SA355A	HITJ	33 - 69
2SA356	HITJ	33 - 53
2SA357	HITJ	33 - 70
2SA358	HITJ	37 - 67
2SA359	TSAJ	43 - 12
2SA360	MITJ	34 - 13
2SA361	MITJ	34 - 16
2SA362	MITJ	35 - 83
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2SA369	MITJ	33 -109
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2SA373	HITJ	42 - 69
2SA375	MITJ	33 - 93
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2SA381	YECJ	33 - 88
2SA382	YECJ	33 - 72
2SA383	YECJ	33 - 54
2SA384	YECJ	33 - 94
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2SA402	TSAJ	48 - 5
2SA403	NECJ	32 - 8
2SA404	NECJ	32 - 24
2SA405	NECJ	39 - 84
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2SA406	NECJ	41 - 65
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2SA411	NECJ	39 -103
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2SA420	TSAJ	29 - 69
2SA421	TSAJ	29 - 72
2SA422	TSAJ	29 - 79
2SA425	YECJ	41 - 87
2SA426	YECJ	41 - 90
2SA427	TSAJ	35 - 72
2SA428	TSAJ	35 - 73
2SA430	TOSJ	30 - 99
2SA431	TOSJ	30 -101
2SA431A	TOSJ	30 -102
2SA432	TOSJ	30 - 89
2SA432A	TOSJ	30 -100
2SA433	TOSJ	29 - 94
2SA435	HITJ	34 - 50
2SA436	HITJ	30 - 50
2SA437	HITJ	30 - 51
2SA438	HITJ	30 - 52
2SA440A	TSAJ	30 - 49
2SA446	TOSJ	41 - 89
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2SA451H	HITJ	40 - 2
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2SA454	SONY	30 - 58
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2SA456	SONY	30 - 60
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2SA459	MITJ	39 - 6
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2SA464	MITJ	30 - 62
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2SA469	♦TOSJ	29 - 85
2SA470	♦TOSJ	29 - 86
2SA471	♦TOSJ	29 - 87
2SA472	♦TOSJ	29 - 88
2SA474	TOSJ	36 -103
2SA475	TOSJ	36 - 90
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2SA506	♦TOSJ	32 - 12
2SA507	♦TOSJ	32 - 7
2SA508	♦TOSJ	32 - 1
2SA517	♦TOSJ	29 - 99
2SA518	♦TOSJ	29 - 96
2SA525	♦TOSJ	46 - 12
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2SA613	NECJ	88 - 41
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2SA616	NECJ	88 - 64
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2SA647	MITJ	88 - 38
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2SA653	NECJ	88 - 44
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2SB24	TSAJ	28 - 42
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2SB44	TOSJ	32 - 86
2SB46	TOSJ	32 - 87
2SB47	TOSJ	32 - 88
2SB48	SONY	37 - 90
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2SB50	SONY	37 - 96
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2SB103	NECJ	37 - 45
2SB104	NECJ	40 - 49
2SB105	NECJ	43 - 38
2SB106	NECJ	43 - 60
2SB107	NECJ	79 - 20
2SB107A	NECJ	80 - 78
2SB108	NECJ	43 - 39
2SB108A	NECJ	43 - 40
2SB108B	NECJ	43 - 41
2SB109	NECJ	43 - 61
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2SB111	NECJ	35 - 15
2SB112	NECJ	35 - 16
2SB113	NECJ	35 - 17
2SB114	NECJ	35 - 20
2SB115	NECJ	35 - 21
2SB116	NECJ	35 - 22
2SB117	NECJ	35 - 23
2SB119	MATJ	82 - 29
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2SB122	TOSJ	80 - 79
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2SB136	MITJ	38 - 36
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2SB137	MITJ	81 - 23
2SB138	MITJ	81 - 24
2SB138A	MITJ	81 - 25
2SB138B	MITJ	81 - 26
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2SB144	SONY	78 - 45
2SB144P	SONY	79 - 8
2SB145	SONY	123 - 65
2SB146	SONY	123 - 66
2SB147	SONY	78 - 51
2SB148	TOSJ	83 - 65
2SB149	TOSJ	81 - 27
2SB150	TOSJ	28 - 95
2SB153	HITJ	38 - 4
2SB154	HITJ	38 - 5
2SB155	HITJ	38 - 6
2SB157	MATJ	27 - 8
2SB158	MATJ	27 - 9
2SB159	MATJ	27 - 12
2SB160	MATJ	27 - 10
2SB161	NECJ	37 - 33
2SB162	NECJ	40 - 42
2SB163	NECJ	37 - 39
2SB164	NECJ	40 - 43
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2SB174	MATJ	42 - 1
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2SB201	♦TOSJ	42 - 81
2SB202	♦TOSJ	42 - 48
2SB203	SHEJ	85 - 57
2SB204	SHEJ	85 - 58
2SB205	SHEJ	85 - 59
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2SB216	TSAJ	80 - 81
2SB217	TSAJ	80 - 82
2SB218	NECJ	42 - 9
2SB219	NECJ	42 - 2
2SB220	NECJ	42 - 5
2SB221	NECJ	42 - 10
2SB222	NECJ	42 - 16
2SB223	NECJ	42 - 20
2SB224	NECJ	42 - 11
2SB225	NECJ	42 - 17
2SB226	NECJ	42 - 21
2SB227	NECJ	42 - 25
2SB228	HITJ	83 - 55
2SB229	HITJ	83 - 56
2SB230	HITJ	83 - 57
2SB231	TOSJ	81 - 28
2SB232	MATJ	82 - 91
2SB233	MATJ	82 - 92
2SB234	MATJ	82 - 93
2SB235	TOSJ	84 - 17
2SB236	TOSJ	84 - 18
2SB237	TOSJ	84 - 19
2SB238	NECJ	79 - 21
2SB239	NECJ	79 - 22
2SB239A	NECJ	79 - 23
2SB240	NECJ	79 - 24
2SB240A	NECJ	79 - 25
2SB241	NECJ	79 - 26
2SB241A	NECJ	79 - 27
2SB242	NECJ	79 - 28
2SB242A	NECJ	79 - 29
2SB243	NECJ	79 - 30
2SB243A	NECJ	79 - 31
2SB244	NECJ	79 - 32
2SB245	NECJ	79 - 33
2SB246	NECJ	83 - 66
2SB247	NECJ	83 - 67
2SB248	NECJ	83 - 68
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2SB254	TSAJ	80 - 83
2SB255	TSAJ	78 - 86
2SB256	TSAJ	78 - 87
2SB257	TOSJ	30 - 15
2SB258	TOSJ	84 - 20
2SB259	TOSJ	84 - 21
2SB260	TOSJ	84 - 22
2SB264	NECJ	30 - 96
2SB265	♦TOSJ	40 - 14
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2SB267	YECJ	38 - 58
2SB268	MITJ	42 - 58
2SB269	YECJ	38 - 59
2SB271	TSAJ	43 - 55
2SB272	TSAJ	43 - 56
2SB273	TSAJ	43 - 57
2SB274	HITJ	79 - 11
2SB275	HITJ	79 - 12
2SB276	HITJ	79 - 13
2SB290	TOSJ	30 - 74
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2SB294	YECJ	38 - 54
2SB296	TOSJ	83 - 52
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2SB301	TOSJ	83 - 54
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2SB316	MITJ	38 - 46
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2SB322	TOSJ	28 - 50
2SB323	TOSJ	28 - 51
2SB326	NECJ	42 - 3
2SB327	NECJ	42 - 4
2SB328	NECJ	38 - 7
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2SB444	HITJ	35 - 37
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2SB444A	HITJ	35 - 31
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2SB450A	YECJ	41 - 5
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2SB452	MITJ	42 - 84
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2SB453	MITJ	114 - 35
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2SB457	MITJ	38 - 38
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2SB458	MITJ	43 - 77
2SB458A	MITJ	43 - 78
2SB458B	MITJ	43 - 79
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2SB484	SHEJ	84 - 24
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2SC35	MATJ	45 - 10
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2SC76	SONY	44 - 3
2SC77	SONY	44 - 4
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
△-Registered with JEDEC by this manufacturer

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2SC119	HITJ	91-106
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2SC121	NECJ	61-38
2SC122	NECJ	61-39
2SC123	NECJ	61-40
2SC124	NECJ	61-41
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2SC152	HITJ	70-103
2SC153	HITJ	71-3
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2SC167	HITJ	57-80
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2SC175	SONY	44-5
2SC176	SONY	44-6
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2SC178	SONY	44-11
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2SC181	HITJ	45-3
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2SC183	NECJ	53-49
2SC184	NECJ	53-58
2SC185	NECJ	53-67
2SC191	SONY	60-103
2SC192	SONY	60-72
2SC193	SONY	60-89
2SC194	SONY	60-104
2SC195	SONY	60-73
2SC196	SONY	60-90
2SC197	SONY	60-105
2SC199	TOSJ	69-106
2SC241	NECJ	104-49
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
△-Registered with JEDEC by this manufacturer

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7D2	GESY	none
Repl.by D7D2 Obs.		
7D3	GESY	none
Repl.by D7D3 Obs.		
7D4	GESY	none
Repl.by 2N2203 Cur.		
7D13	GESY	none
Repl.by D7D13 Cur.		
7D33	GESY	none
Repl.by 2N3591 Cur.		
7D34	GESY	none
Repl.by 2N3592 Cur.		
7E1	GESY	none
Repl.by D7E1 Obs.		
7E2	GESY	none
Repl.by D7E2 Cur.		
7E3	GESY	none
Repl.by D7E3 Obs.		
7E4	GESY	none
Repl.by 2N2204 Cur.		
7E13	GESY	91 - 57
7F1	GESY	none
Repl.by D7F1 Obs.		
7F2	GESY	none
Repl.by D7F2 Obs.		
7F3	GESY	none
Repl.by D7F3 Obs.		
7F4	GESY	none
Repl.by D7F4 Obs.		
7F13	GESY	91 - 58
7G1	GESY	none
Repl.by D7G1 Obs.		
7G2	GESY	none
Repl.by D7G2 Obs.		
7G3	GESY	none
Repl.by D7G3 Obs.		
7G4	GESY	none
Repl.by 2N2995 Cur.		
7G13	GESY	91 - 69
7G33	GESY	none
Repl.by 2N2726 Cur.		
7G34	GESY	none
Repl.by 2N2727 Cur.		
10	♦SSE	127 - 64
10B551	GESY	53 - 98
10B553	GESY	53 - 80
10B553-2,3	GESY	none
Repl.by D10B553-2,3 Cur.		
10B555	GESY	53 - 81
10B555-2,3	GESY	none
Repl.by D10B555-2,3 Cur.		
10B556	GESY	53 - 82
10B556-2,3	GESY	none
Repl.by D10B556-2,3 Cur.		
10B701	GESY	52 - 15
10B705	GESY	119 -107
10B1051	GESY	none
Repl.by D10B1051 Cur.		
10B1055	GESY	none
Repl.by D10B1055 Cur.		
10C573	GESY	53 - 83
10C573-2,3	GESY	none
Repl.by D10C573-2,3 Cur.		
10C574	GESY	53 - 84
10C574-2,3	GESY	none
Repl.by D10C574-2,3 Cur.		
10D556-2,3	GESY	54 - 7
10D701	GESY	52 - 18
10D702	GESY	52 - 17
10E1051	GESY	52 - 19
		121 - 30
10G1051	GESY	52 - 2
10G1052	GESY	none
Repl.by D10G1052 Cur.		
10H551	GESY	53 - 15
10H551-2,3	GESY	none
Repl.by D10H551-2,3 Cur.		
10H553	GESY	53 - 16
10H553-2,3	GESY	none
Repl.by D10H553-2,3 Cur.		
10H1051	GESY	53 - 17
10H1053	GESY	53 - 18
10T2	FTHF	54 - 47
11B551	GESY	53 - 24
11B551-2,3	GESY	none
Repl.by D11B551-2,3 Cur.		
11B552	GESY	53 - 30
11B552-2,3	GESY	none
Repl.by D11B552-2,3 Cur.		
11B554	GESY	53 - 50
11B554-2,3	GESY	none
Repl.by D11B554-2,3 Cur.		
11B555	GESY	53 - 51
11B555-2,3	GESY	none
Repl.by D11B555-2,3 Cur.		
11B556	GESY	53 - 31
11B556-2,3	GESY	none
Repl.by D11B556-2,3 Cur.		
11B560	GESY	53 - 32
11B560-2,3	GESY	none
Repl.by D11B560-2,3 Cur.		
11B1052	GESY	53 - 64
11B1055	GESY	none
Repl.by D11B1055 Cur.		
11B1257	GESY	71 - 47
11B1258	GESY	71 - 36
11B1259	GESY	68 - 65
11B1260	GESY	71 - 9
11C1B1	GESY	92 - 87
11C1F1	GESY	92 - 6
11C3B1	GESY	92 - 88
11C3F1	GESY	92 - 7
11C5B1	GESY	92 - 89
11C5F1	GESY	92 - 8
11C7B1	GESY	none
Repl.by D11C7B1 Cur.		
11C7F1	GESY	none
Repl.by D11C7F1 Cur.		
11C10B1	GESY	92 - 90
11C10F1	GESY	92 - 9
11C11B1	GESY	92 - 91
11C11F1	GESY	92 - 10
11C201B20	GESY	93 - 29
11C203B20	GESY	93 - 30
11C205B20	GESY	93 - 31
11C207B20	GESY	none
Repl.by D11C207B20 Cur.		
11C210B20	GESY	93 - 32
11C211B20	GESY	93 - 33
11C551	GESY	53 - 33
11C551-2,3	GESY	none
Repl.by D11C551-2,3 Cur.		
11C553	GESY	53 - 34
11C553-2,3	GESY	none
Repl.by D11C553-2,3 Cur.		
11C557	GESY	53 - 35
11C557-2,3	GESY	none
Repl.by D11C557-2,3 Cur.		
11C702	GESY	62 - 96
11C704	GESY	62 - 97
11C710	GESY	62 - 98
11C1051	GESY	53 - 36
11C1053	GESY	53 - 37
11C1057	GESY	53 - 38
11C1536	GESY	71 - 37
11CB1	GESY	91 - 46
11CB2	GESY	91 - 47
11CB3	GESY	91 - 48
11CB4	GESY	91 - 49
11CB5	GESY	91 - 50
11CB6	GESY	91 - 51
11CB7	GESY	91 - 52
11CB8	GESY	91 - 53
11CF1	GESY	90-101
11CF2	GESY	90-102
11CF3	GESY	90-103
11CF4	GESY	90-106
11CF5	GESY	90-107
11CF6	GESY	90-108
11CF7	GESY	90-109
11CF8	GESY	90-110
11G702	GESY	52 - 8
11G703	GESY	52 - 9
11G1052	GESY	52 - 10
11G1053	GESY	52 - 11
11T1	FTHF	78 - 4
11T2	FTHF	54 - 48
12A8	AEIL	123 - 79
12A104	♦GESY	123 - 80
12A105	GESY	123 - 81
12A107	GESY	123 - 82
12A108	GESY	123 - 83
12A304	GESY	123 - 84
12A308	GESY	123 - 85
12A904	GESY	123 - 86
12C101	GESY	127 - 65
12C102	GESY	127 - 66
12E109	GESY	none
Repl.by D12E109 Cur.		
12G1	GESY	123 - 87
12G2	GESY	123 - 88
12G101	GESY	123 - 89
12G301	GESY	123 - 90
12G302	GESY	123 - 91
12H301	GESY	123 - 92
12H302	GESY	123 - 93
12H303	GESY	123 - 94
12H901	GESY	123 - 95
12H902	GESY	123 - 96
12J301	GESY	123 - 97
12J302	GESY	123 - 98
12J303	GESY	123 - 99
12J901	GESY	123-100
12J902	GESY	123-101
12J905	GESY	123-102
12T1	FTHF	78 - 5
12T2	FTHF	54 - 49
12X006	♦GESY	128 - 39
12X008	♦GESY	128 - 40
12X010	GESY	none
Repl.by D12X010 Cur.		
12X011	GESY	none
Repl.by D12X011 Cur.		
12X012	GESY	none
Repl.by D12X012 Cur.		
12X013	GESY	none
Repl.by D12X013 Cur.		
12X014	GESY	none
Repl.by D12X014 Cur.		
12X015	GESY	none
Repl.by D12X015 Cur.		
12X040	♦GESY	128 - 41
12X043	GESY	none
Repl.by D12X043 Cur.		
12X047	GESY	none
Repl.by D12X047 Cur.		
12X058	♦GESY	128 - 42
12X059	♦GESY	128 - 43
12X070	GESY	none
Repl.by D12X070 Cur.		
12X084A	GESY	none
Repl.by D12X084A Cur.		
12X084B	♦GESY	123-103
12X165	♦GESY	123-104
13K3	SSD	none
Repl.by 3N72 Cur.		
13T1	FTHF	78 - 6
14A502	GESY	none
Repl.by L14A502 Cur.		
14T1	FTHF	78 - 7
15T1	FTHF	78 - 8
16E4	GESY	none
Repl.by 2N3858 Cur.		
16E5	GESY	none
Repl.by 2N3859 Cur.		
16E6	GESY	none
Repl.by 2N3860 Cur.		
16G2	GESY	none
Repl.by 2N3663 Cur.		
16J1	GESY	58-108
		120 - 41
16J2	GESY	58-109
		120 - 43
16K1	GESY	59 - 27
16K2	GESY	59 - 28
16K3	GESY	59 - 1
16L2	GESY	58 - 17
16L3	GESY	58 - 22
16L4	GESY	58 - 32
16L5	GESY	58 - 37
16L22	GESY	58 - 18
16L23	GESY	58 - 23
16L24	GESY	58 - 33
16L25	GESY	58 - 38
16L42	GESY	58 - 19
16L43	GESY	none
Repl.by 2N3855 Cur.		
16L44	GESY	none
Repl.by 2N3856 Cur.		
16L62	GESY	58 - 20
16L63	GESY	none
Repl.by 2N3855A Cur.		
16L64	GESY	none
Repl.by 2N3856A Cur.		
16T1	FTHF	78 - 9
16X1	GESY	none
Repl.by 2N3877A Cur.		
16X2	GESY	none
Repl.by 2N3877 Cur.		
17T1	FTHF	43 - 45
18T1	THCF	43 - 46
20	♦SSE	127 - 67
20A10	GESY	102 - 63
20A11	GESY	102 - 64
20A12	GESY	102 - 65
20C1	GESY	99 - 31
22MPG5	STC	128 - 44
22MPS5	STC	128 - 45
23K3	SSD	none
Repl.by 3N73 Cur.		
25T1	CDLF	28 - 2
	FTHF	
25T2	FTHF	68 - 80
26T1	CDLF	27 -101
	FTHF	
26T2	FTHF	68 - 81
26T2C	THCF	90 - 24
28T2	FTHF	68 - 82
29T2	FTHF	68 - 83
29T2C	FTHF	90 - 25
30T2	THCF	123-105
31N2	SSD	none
Repl.by 2N735A Cur.		
32N2	SSD	none
Repl.by 2N736 Cur.		
33K3	SSD	none
Repl.by 3N71 Cur.		
34N2	SSD	none
Repl.by 2N739A Cur.		
35N2	SSD	none
Repl.by 2N740A Cur.		
35T1	CDLF	29 - 21
36T1	CDLF	29 - 24
37T1	CDLF	29 - 28
38N2	SSD	none
Repl.by 2N758B Cur.		
38T1	FTHF	34 - 79
39N2	SSD	none
Repl.by 2N759B Cur.		
39T1	FTHF	34 - 81
40N2	SSD	none
Repl.by 2N760B Cur.		
41N2	SSD	none
Repl.by 2N929A Cur.		
42N2	SSD	none
Repl.by 2N930A Cur.		
44T1	THCF	43 - 31
64EPA	RTCF	54 - 78
64EPB	RTCF	54 - 79
64T1	THCF	39 - 15
65T1	THCF	39 - 20
70T2	THCF	127 - 17
78EP	RTCF	64 - 89
		121 - 32
80T2	THCF	91 - 70
81T2	THCF	91 - 1
82T1	THCF	78 - 10
82T2	THCF	95 - 93
83T2	THCF	96 - 71
90T2	CDLF	57 - 45
MISI	THCF	
96EP	RTCF	62 - 32
		119 - 29
97EPA	RTCF	64 - 61
		120 - 59
97EPB	RTCF	64 - 62
		120 - 60
98T2	THCF	57 - 46
		112 - 59
100T2	MISI	90 - 26
	THCF	
101A	MOTA	39 - 88
		120 - 30
101B	MOTA	39 - 89
		120 - 31
101M	MOTA	39 - 90
		120 - 32
103EP	RTCF	54 - 80
104T2	MISI	90 - 27
	THCF	
107A	MOTA	39 - 94
107B	MOTA	39 - 95
107M	MOTA	39 - 96
109UA	WESY	none
Repl.by 2N2739 Cur.		
109UB	WESY	none
Repl.by 2N2740 Cur.		
109UC	WESY	none
Repl.by 2N2741 Cur.		
109UD	WESY	none
Repl.by 2N2742 Cur.		
109WA	WESY	none
Repl.by 2N2745 Cur.		
109WB	WESY	none
Repl.by 2N2746 Cur.		
109WC	WESY	none
Repl.by 2N2747 Cur.		
109WD	WESY	none
Repl.by 2N2748 Cur.		
109XA	WESY	none
Repl.by 2N2751 Cur.		
109XB	WESY	none
Repl.by 2N2752 Cur.		
109XC	WESY	none
Repl.by 2N2753 Cur.		
109XD	WESY	none
Repl.by 2N2754 Cur.		
111T2	MISI	71 - 10
	THCF	112 - 1
115UA	WESY	none
Repl.by 2N1809 Cur.		
115UB	WESY	none
Repl.by 2N1810 Cur.		
115UC	WESY	none
Repl.by 2N1811 Cur.		
115UD	WESY	none
Repl.by 2N1812 Cur.		
115UE	WESY	none
Repl.by 2N1813 Cur.		
115UF	WESY	none
Repl.by 2N1814 Cur.		
115WA	WESY	none
Repl.by 2N1816 Cur.		
115WB	WESY	none
Repl.by 2N1817 Cur.		
115WC	WESY	none
Repl.by 2N1818 Cur.		
115WD	WESY	none
Repl.by 2N1819 Cur.		
115XA	WESY	none
Repl.by 2N1823 Cur.		
115XB	WESY	none
Repl.by 2N1824 Cur.		
115XC	WESY	none
Repl.by 2N1825 Cur.		
115XD	WESY	none
Repl.by 2N1826 Cur.		
115YA	WESY	none
Repl.by 2N1830 Cur.		
115YB	WESY	none
Repl.by 2N1831 Cur.		
115YC	WESY	none
Repl.by 2N1832 Cur.		
115YD	WESY	none
Repl.by 2N1833 Cur.		
118UA	WESY	none
Repl.by 2N2226 Cur.		
118UB	WESY	none
Repl.by 2N2227 Cur.		
118UC	WESY	none
Repl.by 2N2228 Cur.		
118UD	WESY	none
Repl.by 2N2229 Cur.		
118XA	WESY	none
Repl.by 2N2230 Cur.		
118XB	WESY	none
Repl.by 2N2231 Cur.		
118XC	WESY	none
Repl.by 2N2232 Cur.		
118XD	WESY	none
Repl.by 2N2233 Cur.		
121T2	THCF	59 - 23
122T2	THCF	59 - 24
123T2	THCF	59 - 25
125T1	CDLF	43 - 33
125UA	WESY	none
Repl.by 2N2109 Cur.		
125UB	WESY	none
Repl.by 2N2110 Cur.		

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
△-Registered with JEDEC by this manufacturer

Obs-In this book

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
125UC	WESY	none
Repl.by 2N2111 Cur.		
125UD	WESY	none
Repl.by 2N2112 Cur.		
125UE	WESY	none
Repl.by 2N2113 Cur.		
125UF	WESY	none
Repl.by 2N2114 Cur.		
125WA	WESY	none
Repl.by 2N2116 Cur.		
125WB	WESY	none
Repl.by 2N2117 Cur.		
125WC	WESY	none
Repl.by 2N2118 Cur.		
125WD	WESY	none
Repl.by 2N2119 Cur.		
125XA	WESY	none
Repl.by 2N2123 Cur.		
125XB	WESY	none
Repl.by 2N2124 Cur.		
125XC	WESY	none
Repl.by 2N2125 Cur.		
125XD	WESY	none
Repl.by 2N2126 Cur.		
125YA	WESY	none
Repl.by 2N2130 Cur.		
125YB	WESY	none
Repl.by 2N2131 Cur.		
125YC	WESY	none
Repl.by 2N2132 Cur.		
125YD	WESY	none
Repl.by 2N2133 Cur.		
126T1	CDLF	43 - 34
127T1	CDLF	43 - 35
130-04	WESY	107 - 73
130-06	WESY	107 - 74
130-08	WESY	107 - 75
130-10	WESY	107 - 76
146T1	THCF	82 - 42
147T1	THCF	81 - 38
151-24	♦WESY	109 - 32
		113 - 4
151-26	♦WESY	109 - 33
		113 - 5
151-28	♦WESY	109 - 34
		113 - 6
151-30	♦WESY	107 - 24
		113 - 7
152-24	♦WESY	109 - 35
		113 - 8
152-26	♦WESY	109 - 36
		113 - 9
152-28	♦WESY	109 - 37
		113 - 10
152-30	♦WESY	107 - 25
		113 - 11
153-24	♦WESY	109 - 1
		112 - 92
153-26	♦WESY	109 - 2
		112 - 93
153-28	♦WESY	109 - 3
		112 - 94
153-30	♦WESY	109 - 4
		112 - 95
154-24	♦WESY	109 - 5
		112 - 96
154-26	♦WESY	109 - 6
		112 - 97
154-28	♦WESY	109 - 7
		112 - 98
154-30	♦WESY	109 - 8
		112 - 99
154T1	THCF	34 - 26
155T1	THCF	34 - 29
156-04	WESY	107 - 16
156-06	WESY	107 - 17
156-08	WESY	107 - 18
156-10	WESY	107 - 19
156-043	♦WESY	105 - 68
156-044	♦WESY	105 - 69
156-064	♦WESY	105 - 70
156-083	♦WESY	105 - 71
156-084	♦WESY	105 - 72
156-104	♦WESY	105 - 73
156-123	♦WESY	105 - 74
156-124	♦WESY	105 - 75
156-143	♦WESY	105 - 76
156-144	♦WESY	105 - 77
156-164	♦WESY	105 - 78
156T1	THCF	34 - 30
157T1	THCF	34 - 33
159T1	THCF	34 - 40
160T1	THCF	34 - 43
161T1	THCF	34 - 44
161T2	THCF	none
Repl.by 2N3605 Cur.		
162T1	THCF	34 - 47
162T2	THCF	none
Repl.by 2N3606 Cur.		
163-24	♦WESY	110 - 4
		112-103
163-26	♦WESY	110 - 5
		112-104
163-28	♦WESY	110 - 6
		112-105
163-30	♦WESY	110 - 7
		112-106
164-24	♦WESY	110 - 8
		112-107
164-26	♦WESY	110 - 9
		112-108
164-28	♦WESY	110 - 10
		112-109

TYPE No.	MFRS	Pg&Line
164-30	♦WESY	110 - 11
		112-110
180T2	THCF	104 - 56
181T2	THCF	104 - 57
182T2	THCF	104 - 58
183T2	THCF	104 - 59
184T2	THCF	104 - 60
185T2	THCF	104 - 61
200A	TII	none
Repl.by 2N364 Cur.		
201A	MOTA	none
	TII	
Repl.by 2N365 Cur.		
201B	MOTA	39 - 91
201M	MOTA	39 - 92
202A	TII	none
Repl.by 2N366 Cur.		
204A	TII	45 - 36
207A	MOTA	39 - 97
207B	MOTA	39 - 98
207M	MOTA	39 - 99
219BLY-A	♦RTCF	none
Repl.by BFW98 Cur.		
251M1	DEL	none
Repl.by 2N1358A Cur.		
251M	DEL	none
Repl.by JAN2N1358 Cur.		
286-1BFY	♦VALG	75 - 69
300	TII	none
Repl.by 2N367 Cur.		
301	TII	none
Repl.by 2N368 Cur.		
302	TII	none
Repl.by 2N369 Cur.		
320	TII	none
Repl.by 2N1093 Cur.		
322T1	THCF	35 - 25
323T1	THCF	35 - 32
324T1	CDLF	35 - 38
	THCF	
325T1	THCF	35 - 43
326T1	THCF	35 - 45
352	TII	none
Repl.by 2N185 Cur.		
355	TII	79 - 41
420	TII	none
Repl.by 2N2387 Cur.		
420T1	CDLF	40 - 60
421	TII	none
Repl.by 2N2388 Cur.		
421T1	CDLF	40 - 61
422	TII	none
Repl.by 2N851 Cur.		
423	♦RCA	none
	TII	
Repl.by 2N852 Cur.		
424	TII	none
Repl.by 2N2381 Cur.		
425	TII	none
Repl.by 2N2390 Cur.		
426	TII	none
Repl.by 2N2391 Obs.		
427	TII	none
Repl.by 2N2392 Obs.		
428	TII	none
Repl.by 2N2393 Cur.		
429	TII	none
Repl.by 2N2394 Cur.		
430	TII	none
Repl.by 2N849 Cur.		
431	♦RCA	none
	TII	
Repl.by 2N850 Cur.		
432	TII	none
Repl.by 2N2395 Cur.		
433	TII	none
Repl.by 2N2396 Cur.		
440C-C	MAL	78 - 11
440C-E	MAL	78 - 12
441C	MAL	78 - 13
442C-A	MAL	78 - 14
442C-D	MAL	78 - 15
450	TII	none
Repl.by 2N849 Cur.		
451	TII	none
Repl.by 2N850 Cur.		
474	TII	none
Repl.by 2N928 Cur.		
475	TII	none
Repl.by 2N930 Cur.		
490	TII	none
Repl.by 2N780 Cur.		
501	TII	none
Repl.by 3N25 Obs.		
501T1	THCF	34 - 45
503T1	THCF	34 - 46
504T1	THCF	34 - 39
505T1	THCF	34 - 41
506T1	THCF	34 - 48
507T1	THCF	34 - 49
508T1	THCF	34 - 42
528BSY	♦VALG	75 - 41
551B	GESY	127 - 18
602	TII	none
Repl.by 2N997 Cur.		
605	TII	none
Repl.by 2N2432 Cur.		
703B	GESY	68 - 67
800	TII	126 - 43
801B	GESY	60 - 82
886	TII	none
Repl.by 2N2411 Cur.		
887	TII	none
Repl.by 2N2412 Cur.		

TYPE No.	MFRS	Pg&Line
898	TII	none
Repl.by 2N985 Cur.		
903	TII	none
Repl.by 2N1149 Cur.		
904	TII	none
Repl.by 2N1150 Cur.		
904A	TII	none
Repl.by 2N1151 Cur.		
905	TII	none
Repl.by 2N1152 Cur.		
906	TII	none
Repl.by 2N1149 Cur.		
907	TII	none
Repl.by 2N1150 Cur.		
908	TII	none
Repl.by 2N1151 Cur.		
909	TII	none
Repl.by 2N1152 Cur.		
910	TII	none
Repl.by 2N1153 Cur.		
925	TII	54 - 39
926	TII	54 - 40
941T1	CDLF	30 - 10
950	TII	none
Repl.by 2N1152 Cur.		
951	TII	none
Repl.by 2N1154 Cur.		
952	TII	none
Repl.by 2N1155 Cur.		
953	TII	none
Repl.by 2N1156 Cur.		
954	TII	none
Repl.by 2N1154 Cur.		
956	TII	none
Repl.by 2N1156 Cur.		
957	TII	90 - 28
958	TII	90 - 29
965T1	CDLF	30 - 11
970	TII	98 - 26
987T1	CDLF	30 - 6
988T1	CDLF	30 - 8
989T1	CDLF	30 - 5
990T1	CDLF	30 - 7
991T1	CDLF	30 - 9
992T1	CDLF	30 - 12
1004	GME	none
Repl.by 31004 Obs.		
1005	GME	none
Repl.by 11005 Obs.		
1009	GME	none
Repl.by 51009 Obs.		
1032	CLE	28 - 78
1033	CLE	28 - 79
1034	CLE	28 - 80
1035	CLE	28 - 81
1036	CLE	28 - 82
1320	CLE	28 - 83
1330	CLE	28 - 84
1340	CLE	28 - 85
1350	CLE	28 - 86
1360	CLE	28 - 87
1390	CLE	29 - 18
1392	TII	none
Repl.by 2N2410 Cur.		
1400	CLE	29 - 23
1401-0205	WESY	110 - 74
1401-0207	WESY	110 - 75
1401-0210	WESY	110 - 76
1401-0215	WESY	110 - 77
1401-0220	WESY	110 - 78
1401-0225	WESY	110 - 79
1401-0405	WESY	110 - 80
1401-0407	WESY	110 - 81
1401-0410	WESY	110 - 82
1401-0605	WESY	110 - 83
1401-0607	WESY	110 - 84
1401-0610	WESY	110 - 85
1401-0620	♦WESY	110 - 86
		113-110
1401-0805	WESY	110 - 87
1401-0807	WESY	110 - 88
1401-0810	WESY	110 - 89
1401-1005	WESY	110 - 90
1401-1007	WESY	110 - 91
1401-1010	WESY	110 - 92
1401-1205	WESY	110 - 93
1401-1207	WESY	110 - 94
1401-1210	WESY	110 - 95
1401-1220	WESY	110 - 96
		114 - 1
1401-1225	WESY	110 - 97
		114 - 2
1401-1405	WESY	110 - 98
1401-1407	WESY	110 - 99
1401-1410	WESY	110-100
1401-1415	WESY	110-101
		114 - 3
1401-1420	WESY	110-102
		114 - 4
1401-1425	WESY	110-103
		114 - 5
1410	CLE	29 - 29
1441-0415	WESY	114 - 6
1441-0420	WESY	114 - 7
1441-0425	WESY	114 - 8
1441-0615	WESY	114 - 9
1441-0620	WESY	114 - 10
1441-0625	WESY	114 - 11
1441-0815	WESY	113-109
1441-0820	WESY	114 - 12
1441-0825	WESY	114 - 13
1441-1015	WESY	114 - 14
1441-1020	WESY	114 - 15
1441-1025	WESY	114 - 16

TYPE No.	MFRS	Pg&Line
1441-1215	WESY	114 - 17
1441-1220	WESY	114 - 18
1441-1225	WESY	114 - 19
1441-1415	WESY	114 - 20
1441-1420	WESY	114 - 21
1441-1425	WESY	114 - 22
1561-1615	STC	108-106
	WESY	
1561A603	STC	109 - 86
	WESY	
1561A608	STC	108-107
	WESY	
1561A615	STC	108-108
	WESY	
1571-32	WESY	98 - 90
1571-33	WESY	98 - 91
1571-34	WESY	98 - 92
1571-35	WESY	98 - 93
1571-36	WESY	98 - 94
1571-41	WESY	98 - 95
1571-42	WESY	98 - 96
1571-43	WESY	98 - 97
1571-44	WESY	98 - 98
1571-46	WESY	98 - 99
1711-0402	♦WESY	99 - 32
1711-0405	♦WESY	99 - 33
1711-0602	♦WESY	99 - 34
1711-0605	♦WESY	99 - 35
1711-0802	♦WESY	99 - 36
1711-0805	♦WESY	99 - 37
1711-1002	♦WESY	99 - 38
1711-1005	♦WESY	99 - 39
1711-1202	♦WESY	99 - 40
1711-1205	♦WESY	99 - 41
1711-1402	♦WESY	99 - 42
1711-1405	♦WESY	99 - 43
1711-1602	♦WESY	99 - 44
1711-1605	♦WESY	99 - 45
1711-1802	WESY	99 - 46
1713-0402	WESY	105 - 88
1713-0405	WESY	105 - 89
1713-0602	WESY	105 - 90
1713-0605	WESY	105 - 91
1713-0802	WESY	105 - 92
1713-0805	WESY	105 - 93
1713-1002	WESY	105 - 94
1713-1005	WESY	105 - 95
1713-1202	WESY	105 - 96
1713-1205	WESY	105 - 97
1713-1402	WESY	105 - 98
1713-1405	WESY	105 - 99
1713-1602	WESY	105-100
1713-1605	WESY	105-101
1713-1802	WESY	105-102
1714-1805	STC	100 - 50
	♦WESY	116 - 70
1716-0402	WESY	104 - 62
		116 - 62
1716-0405	WESY	104 - 63
		116 - 71
1716-0602	♦WESY	104 - 64
		116 - 63
1716-0605	♦WESY	104 - 65
		116 - 72
1716-0802	♦WESY	104 - 66
		116 - 64
1716-0805	♦WESY	104 - 67
		116 - 73
1716-1002	♦WESY	104 - 68
		116 - 65
1716-1005	♦WESY	104 - 69
		116 - 74
1716-1202	♦WESY	104 - 70
		116 - 66
1716-1205	♦WESY	104 - 71
		116 - 75
1716-1402	♦WESY	104 - 72
		116 - 67
1716-1405	♦WESY	104 - 73
		116 - 76
1716-1602	♦WESY	104 - 74
		116 - 68
1716-1605	♦WESY	104 - 75
		116 - 77
1716-1802	♦WESY	104 - 76
		116 - 69
1716-1805	WESY	104 - 77
		116 - 78
1717-0402	♦WESY	99 - 47
1717-0405	♦WESY	99 - 48
1717-0602	♦WESY	99 - 49
1717-0605	♦WESY	99 - 50
1717-0802	♦WESY	99 - 51
1717-0805	♦WESY	99 - 52
1717-1002	♦WESY	99 - 53
1717-1005	♦WESY	99 - 54
1717-1202	♦WESY	99 - 55
1717-1205	♦WESY	99 - 56
1717-1402	♦WESY	99 - 57
1717-1405	♦WESY	99 - 58
1717-1602	♦WESY	99 - 59
1717-1605	♦WESY	99 - 60
1717-1802	WESY	99 - 61
1718-1805	STC	101 - 50
	WESY	116 - 79
1723-2005	WESY	107 - 78
1726-0405	♦WESY	107 - 79
1726-0410	♦WESY	107 - 80
1726-0605	♦WESY	107 - 81
1726-0610	♦WESY	107 - 82
1726-0805	♦WESY	107 - 83
1726-0810	♦WESY	107 - 84
1726-1005	♦WESY	107 - 85
1726-1010	♦WESY	107 - 86

TYPE No.	MFRS	Pg&Line
1726-1205	♦WESY	107 - 87
1726-1210	♦WESY	107 - 88
1726-1405	♦WESY	107 - 89
1726-1410	♦WESY	107 - 90
1726-1605	WESY	107 - 91
1726-1610	WESY	107 - 92
1726-1805	WESY	107 - 93
1726-1810	WESY	107 - 94
1743-0620	♦WESY	107 - 95
		116 - 21
1743-0810	♦WESY	107 - 96
		116 - 18
1743-0830	♦WESY	107 - 97
		116 - 26
1743-1020	♦WESY	107 - 98
		116 - 22
1743-1210	♦WESY	107 - 99
		116 - 19
1743-1230	♦WESY	107-100
		116 - 27
1743-1420	♦WESY	107-101
		116 - 23
1743-1610	♦WESY	107-102
		116 - 20
1743-1630	WESY	107-103
		116 - 28
1743-1820	STC	108 - 55
	♦WESY	116 - 31
1743-1830	STC	108 - 56
	♦WESY	116 - 33
1748-0620	♦WESY	none
Repl.by 2N6046 Obs.		
1748-1020	♦WESY	none
Repl.by 2N6047 Obs.		
1748-1420	♦WESY	none
Repl.by 2N6048 Obs.		
1748-1630	STC	108 - 57
	WESY	116 - 29
1748-1820	STC	108 - 58
	♦WESY	116 - 32
1748-1830	STC	108 - 59
	WESY	116 - 30
1756-0440	WESY	107 - 14
		115 - 85
1756-0460	WESY	107 - 15
		115 - 90
1756-1860	STC	109 - 87
	WESY	115 - 91
1763-0415	♦WESY	107-104
1763-0420	♦WESY	107-105
1763-0425	♦WESY	107-106
1763-0615	♦WESY	107-107
1763-0625	♦WESY	107-108
1763-0815	♦WESY	107-109
1763-0825	♦WESY	107-110
1763-1015	♦WESY	108 - 1
1763-1025	♦WESY	108 - 2
1763-1215	♦WESY	108 - 3
1763-1225	♦WESY	108 - 4
1763-1415	♦WESY	108 - 5
1763-1425	♦WESY	108 - 6
1763-1615	WESY	108 - 7
1763-1625	WESY	108 - 8
1763-1630	STC	108 - 9
	WESY	
1763-1815	WESY	108 - 10
1763-1820	STC	108 - 11
	♦WESY	116 - 24
1763-1830	STC	108 - 12
	WESY	
1768-0415	♦WESY	90 - 55
1768-0420	♦WESY	90 - 56
1768-0425	♦WESY	90 - 57
1768-0615	♦WESY	90 - 58
1768-0625	♦WESY	90 - 59
1768-0815	♦WESY	90 - 60
1768-0825	♦WESY	90 - 61
1768-1015	♦WESY	90 - 62
1768-1025	♦WESY	90 - 63
1768-1215	♦WESY	90 - 64
1768-1225	♦WESY	90 - 65
1768-1415	♦WESY	90 - 66
1768-1425	WESY	90 - 67
1768-1615	WESY	108 - 13
1768-1625	WESY	108 - 14
1768-1630	STC	108 - 60
	WESY	
1768-1815	WESY	108 - 15
1768-1820	STC	108 - 61
	♦WESY	116 - 25
1768-1830	STC	108 - 62
	WESY	
1771-0440	♦WESY	90 - 77
1771-0450	♦WESY	90 - 78
1771-0460	♦WESY	90 - 79
1771-0640	♦WESY	90 - 80
1771-0650	♦WESY	90 - 81
1771-0660	♦WESY	90 - 82
1771-0840	♦WESY	90 - 83
1771-0850	♦WESY	90 - 84
1771-0860	♦WESY	90 - 85
1771-1040	♦WESY	90 - 86
1771-1050	♦WESY	90 - 87
1771-1060	♦WESY	90 - 88
1771-1240	♦WESY	90 - 89
1771-1250	♦WESY	90 - 90
1771-1260	♦WESY	90 - 91
1771-1440	♦WESY	90 - 92
1771-1450	♦WESY	90 - 93
1771-1460	♦WESY	90 - 94
1771-1640	WESY	90 - 95
1776-0440	STC	109 - 38
	WESY	115 - 86
1776-0450	♦WESY	90 - 68

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Obs-In this book
△-Registered with JEDEC by this manufacturer

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TYPE No.	MFRS	Pg&Line
1776-0460	STC	109 - 39
	WESY	115 - 92
1776-0650	♦WESY	90 - 69
1776-0850	♦WESY	90 - 70
1776-1050	♦WESY	90 - 71
1776-1250	♦WESY	90 - 72
1776-1450	♦WESY	90 - 73
1776-1860	STC	109 - 40
	WESY	115 - 93
1781-0640	STC	110 - 12
	WESY	
1781-0660	STC	110 - 13
	WESY	
1781-0840	STC	110 - 14
	WESY	
1781-0860	STC	110 - 15
	WESY	
1781-1040	STC	110 - 16
	WESY	
1781-1060	STC	110 - 17
	WESY	
1781-1240	STC	110 - 18
	WESY	
1781-1260	STC	110 - 19
	WESY	
1781-1440	STC	110 - 20
	WESY	
1843-3510	STC	108 - 16
	♦WESY	116 - 6
1843-3520	STC	108 - 17
	♦WESY	116 - 7
1843-3705	STC	108 - 18
	♦WESY	116 - 8
1843-3710	STC	108 - 19
	♦WESY	116 - 9
1843-3720	STC	108 - 20
	WESY	116 - 10
1859	WEC	none
Repl.by 2N28 Obs.		
1893	WEC	none
Repl.by 2N21 Obs.		
2074	WEC	none
Repl.by 2N463 Obs.		
2075	WEC	none
Repl.by 2N528 Obs.		
2081	WEC	none
Repl.by 2N1841 Obs.		
2082	WEC	none
Repl.by 2N1675 Obs.		
2097	WEC	none
Repl.by 2N559 Obs.		
2141	WEC	none
Repl.by 2N1645 Obs.		
3604	LCTF	44 - 24
3607	LCTF	44 - 25
3609	LCTF	44 - 27
3746	RCA	33 - 95
3907	RCAS	39 - 28
11005	GME	122 - 38
31004	GME	122 - 39
35821EOpt200	♦HPA	70 - 89
35822B	♦HPA	65 - 14
35822EOpt200	♦HPA	65 - 15
35823B	♦HPA	70 - 90
35823E	♦HPA	70 - 91
35825B	♦HPA	68 - 38
35825EOpt200	♦HPA	68 - 39
35830A	♦HPA	92 - 22
35833B	♦HPA	92 - 23
35833E	♦HPA	92 - 24
35834B	♦HPA	92 - 25
35834E	♦HPA	92 - 26
35861B	♦HPA	65 - 16
35862B	♦HPA	65 - 20
35865B	♦HPA	65 - 17
35865E	♦HPA	65 - 18
35865EOpt100	♦HPA	65 - 19
40004	RCA	36 - 91
40005	RCA	37 - 3
40006	RCA	37 - 8
40053	RCA	none
Repl.by 2N3053 Cur.		
40217	RCA	64 - 63
		120 - 90
40218	RCA	63 - 83
		118 - 79
40219	RCA	66 - 76
		119 - 87
40220	RCA	64 - 51
		120 - 42
40221	RCA	66 - 77
		119-108
40222	RCA	63 - 84
		118 - 80
40253	RCA	37 - 43
	SGAI	
40255	RCA	95-107
40256	RCA	95-108
40261	♦RCA	33 - 96
40262	♦RCA	33 - 75
40263	♦RCA	36 - 76
40264	RCA	94 - 78
40268	RCA	35 - 90
40269	♦RCA	38 - 90
40295	♦RCA	59 - 62
40296	♦RCA	59 - 73
40342	RCA	98 - 9
40343	RCA	98 - 10
40350	RCA	57 - 4
40351	RCA	57 - 5
40352	RCA	57 - 6
40354	♦RCA	69 - 12
40355	♦RCA	91 - 2

TYPE No.	MFRS	Pg&Line
40403	RCA	41 - 46
		114 - 99
40404	RCA	64 - 96
40423	♦RCA	93 - 47
40425	♦RCA	93 - 48
40427	♦RCA	93 - 49
40450	♦RCA	92 - 27
		118 - 31
40451	♦RCA	92 - 28
		118 - 32
40452	♦RCA	92 - 29
40453	♦RCA	92 - 30
40454	♦RCA	92 - 31
40455	♦RCA	92 - 32
40456	♦RCA	92 - 33
40460	RCA	75 - 42
		127 - 68
40461	♦RCA	75 - 43
40468	♦RCA	75 - 28
40469	RCA	57 - 20
40470	RCA	57 - 18
40471	RCA	57 - 19
40487	♦RCA	33 - 97
40488	♦RCA	33 - 76
40489	♦RCA	33 - 77
40490	♦RCA	36 - 77
40513	♦RCA	105-103
40517	♦RCA	59 - 57
40518	♦RCA	59 - 58
40546	♦RCA	97 - 24
40547	♦RCA	97 - 25
40559	♦RCA	75 - 29
40628	♦RCA	92 - 34
40675	♦RCA	105-104
		128 - 46
40809	♦RCA	123-106
	♦RTCF	
41004	PHIL	74 - 14
41508	RCA	none
Repl.by 43104 Cur.		
51009	GME	122 - 40
A3T918	♦TII	60 - 8
A3T929	♦TII	59-102
A3T930	♦TII	59-103
A3T2221	♦TII	60 - 3
		119 - 5
A3T2221A	♦TII	60 - 4
		119 - 9
A3T2222	♦TII	60 - 5
		119 - 6
A3T2222A	♦TII	60 - 6
		119 - 88
A3T2484	♦TII	59-106
A3T2894	♦TII	47 - 63
		120 - 91
A3T2906	♦TII	47 - 59
		118 - 81
A3T2906A	♦TII	47 - 60
		118 - 82
A3T2907	♦TII	47 - 61
		118 - 83
A3T2907A	♦TII	47 - 62
		118 - 84
A3T3011	♦TII	60 - 7
		120 - 71
A25Q	PLSB	128 - 47
A104	♦APX	62 - 36
A106	♦APX	62 - 37
A108	♦APX	62 - 38
A110	♦APX	62 - 39
A111	♦APX	62 - 40
A115	SGAI	62 - 41
A116	♦APX	62 - 42
A130	♦APX	65 - 71
	PHIC	
A132	APX	65 - 72
	PHIC	
A133	♦APX	62-104
A134	♦APX	64 - 12
A135	♦APX	64 - 13
A136	♦APX	64 - 14
A137	♦APX	64 - 15
A138	♦APX	64 - 16
A139	♦APX	64 - 17
A151	APX	52 - 41
A152	APX	52 - 42
A153	APX	52 - 43
A154	♦APX	64 - 3
A155	♦APX	63 - 85
A157	APX	63-100
A157C	♦APX	64 - 18
A158	APX	63-101
A159	APX	64 - 19
A164	♦APX	64 - 4
A165	♦APX	63 - 86
A170	♦APX	48 - 42
A171	♦APX	48 - 52
A190	♦APX	76 - 2
A191	♦APX	75 - 44
A192	♦APX	76 - 3
A193	♦APX	76 - 4
A194	♦APX	75 - 45
A195	♦APX	75 - 46
A196	♦APX	75 - 47
A197	♦APX	75 - 70
		112 - 7
A198	♦APX	75 - 71
		112 - 8
A199	♦APX	75 - 72
		112 - 9
A200	APX	93 - 50
A201	♦APX	95-109
A202	♦APX	98 - 19
A203	♦APX	90 - 96

TYPE No.	MFRS	Pg&Line
A208	♦APX	95-110
A209	♦APX	93 - 35
A213	♦APX	92 - 92
A214	♦APX	68 - 64
A215	APX	65 - 8
A230	♦APX	72 - 19
A235	♦APX	99 - 62
A237	♦APX	96 - 95
A238	♦APX	92 - 93
A245	♦APX	92 - 61
A246	♦APX	93 - 51
A247	APX	95 - 94
A249	♦APX	91 - 3
A253	♦APX	97 - 6
A267	♦APX	92 - 94
A270	♦APX	94 - 58
A271	♦APX	97 - 10
A272	♦APX	98-100
A273	♦APX	100 - 51
A274	♦APX	94 - 59
A275	♦APX	97 - 11
A276	♦APX	98-101
A277	♦APX	100 - 52
A298	♦APX	91 - 4
A301	PHIC	63 - 3
A306	PHIC	65 - 89
A307	PHIC	65 - 90
A310	PHIC	63 - 4
A311	PHIC	62-105
A321	♦APX	62-106
A322	♦APX	62-107
A323	♦APX	62-108
A324	♦APX	62-109
A344	♦APX	64 - 20
		119 - 72
A345	♦APX	64 - 21
		119 - 73
A346	♦APX	64 - 22
		119 - 74
A390	♦APX	76 - 5
		112 - 48
A392	♦APX	75 - 48
A411	APX	34 - 61
A415	♦APX	none
Repl.by 2N4433 Cur.		
A417	♦APX	54 - 87
A418	♦APX	54 - 83
A419	♦APX	54 - 84
A420	♦APX	54 - 85
A427	♦APX	56 - 72
A431	♦APX	62 - 18
		128 - 48
A451	APX	54 - 81
A454	APX	54 - 88
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A1460	APX	53 - 10
A1462	APX	53 - 85
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
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AT1834	SERA	82- 53
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AT/AF2	NTLB	36- 49
AT/RF1	NTLB	36- 67
AT/RF2	NTLB	36- 83
AT/S13	NTLB	36- 74
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		114-100
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B2	NECJ	56- 45
		120- 78
B3	NECJ	56- 46
		120- 79
B4	NECJ	56- 47
		120- 80
B113	BACE	81- 46
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B114	SOD	81- 47
B121	SOD	81- 48
B134	BACE	82- 96
	SOD	
B134A	BACE	82- 97
	SOD	
B134B	BACE	82- 98
	SOD	
B177	SOD	81- 1
B178	SOD	81- 2
B179	SOD	81- 3
B1013	SOD	none
Repl.by 2N2282 Cur.		
B1013A	SOD	none
Repl.by 2N2283 Cur.		
B1013B	SOD	none
Repl.by 2N2284 Cur.		
B1017	SOD	81- 49
B1022	SOD	42- 80
B1085	♦SOD	81- 50
B1110	SOD	84- 27
B1151	SOD	83- 82
B1151A	SOD	83- 83
B1151B	SOD	83- 84
B1152	SOD	83- 85
B1152A	SOD	83- 86
B1152B	SOD	83- 87
B1154	SOD	43- 32
B1178	♦SOD	83- 88
B1181	♦SOD	85- 64
B1274	SOD	none
Repl.by 2N2291 Cur.		
B1274A	SOD	none
Repl.by 2N2292 Cur.		
B1274B	SOD	none
Repl.by 2N2293 Cur.		
B1368A	SOD	none
Repl.by 2N2638 Cur.		
B1368B	SOD	85- 65
B1368C	SOD	85- 66
B1368D	SOD	none
Repl.by 2N2638 Cur.		
B1368E	SOD	none
Repl.by 2N2637 Cur.		
B1368F	SOD	none
Repl.by 2N2636 Cur.		
B1913	SOD	82- 59
B1914	SOD	80- 2
B3045	SOD	104- 78
B3046	SOD	104- 79
B3141	SOD	none
Repl.by 2N3619 Cur.		
B3142	SOD	none
Repl.by 2N3620 Cur.		
B3143	SOD	none
Repl.by 2N3621 Cur.		
B3144	SOD	none
Repl.by 2N3622 Cur.		
B3145	SOD	none
Repl.by 2N3623 Cur.		
B3146	SOD	none
Repl.by 2N3624 Cur.		
B3147	SOD	none
Repl.by 2N3625 Cur.		
B3148	SOD	none
Repl.by 2N3626 Cur.		
B3149	SOD	none
Repl.by 2N3627 Cur.		
B3161	SOD	none
Repl.by 2N3628 Cur.		
B3162	SOD	none
Repl.by 2N3629 Cur.		
B3163	SOD	none
Repl.by 2N3630 Cur.		
B3456	SOD	104- 80
B3458	SOD	94- 79
B3459	SOD	104- 81
B3459A	SOD	104- 82
B3460	SOD	none
Repl.by 2N4225 Cur.		
B3461	SOD	none
Repl.by 2N4226 Cur.		
B3465	♦SOD	94- 80
B3466	♦SOD	94- 81
B3531	SOD	94- 82
B3532	SOD	94- 83
B3533	SOD	94- 84
B3534	SOD	94- 85
B3535	SOD	94- 86
B3536	SOD	94- 87
B3537	SOD	94- 88
B3538	SOD	95- 81
B3539	SOD	95- 82
B3540	SOD	95- 83
B3541	SOD	95- 84
B3542	SOD	95- 85
B3543	SOD	95- 86
B3544	SOD	95- 87
B3546	SOD	95- 88
B3547	SOD	101- 51
B3548	SOD	101- 52
B3549	SOD	101- 53
B3550	SOD	101- 54
B3551	SOD	101- 55
B3552	SOD	101- 56
B3553	SOD	101- 57
B3554	SOD	101- 58
B3555	SOD	101- 59
B3556	SOD	101- 60
B3557	SOD	101- 61
B3558	SOD	101- 62
B3559	SOD	101- 63
B3560	SOD	101- 64
B3561	SOD	101- 65
B3562	SOD	101- 66
B3563	SOD	101- 67
B3564	SOD	101- 68
B3565	SOD	101- 69
B3566	SOD	101- 70
B3567	SOD	101- 71
B3568	SOD	95- 89
B3569	SOD	95- 90
B3570	SOD	96- 2
B3571	SOD	96- 3
B3572	SOD	96- 4
B3573	SOD	96- 5
B3574	SOD	96- 6

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
B3575	SOD	96- 7
B3576	SOD	96- 8
B3577	SOD	101- 72
B3578	SOD	101- 73
B3579	SOD	101- 74
B3580	SOD	101- 75
B3581	SOD	101- 76
B3582	SOD	101- 77
B3583	SOD	101- 78
B3584	SOD	101- 79
B3585	SOD	99- 64
B3586	SOD	99- 65
B3587	SOD	99- 66
B3588	SOD	99- 67
B3589	SOD	99- 68
B3590	SOD	99- 69
B3591	SOD	99- 70
B3592	SOD	99- 71
B3593	SOD	99- 72
B3594	SOD	94- 89
B3595	SOD	94- 90
B3596	SOD	94- 91
B3597	SOD	94- 92
B3598	SOD	94- 93
B3599	SOD	94- 94
B3600	SOD	94- 95
B3601	SOD	94- 96
B3602	SOD	94- 97
B3603	SOD	94- 98
B3604	SOD	94- 99
B3605	SOD	94-100
B3606	SOD	94-101
B3607	SOD	94-102
B3608	SOD	94-103
B3609	SOD	94-104
B3610	SOD	94-105
B3611	SOD	94-106
B3612	SOD	94-107
B3613	SOD	94-108
B3614	SOD	94-109
B3615	SOD	94-110
B3616	SOD	95- 1
B3617	SOD	95- 2
B3618	SOD	99- 73
B3619	SOD	99- 74
B3620	SOD	99- 75
B3621	SOD	99- 76
B3622	SOD	99- 77
B3623	SOD	99- 78
B3624	SOD	99- 79
B3625	SOD	99- 80
B3626	SOD	99- 81
B3629	SOD	96- 9
B3630	SOD	96- 10
B3631	SOD	101- 80
B3632	SOD	101- 81
B3633	SOD	101- 82
B3634	SOD	101- 83
B3746	♦SOD	91- 71
B3747	♦SOD	92- 35
B3748	♦SOD	92- 36
B3749	♦SOD	95- 3
B3750	♦SOD	95- 4
B5000	♦SOD	104- 83
B5001	♦SOD	100- 79
B5002	SOD	100- 80
B5021	SOD	100- 81
B5022	SOD	100- 82
B5031	SOD	100- 83
B5032	SOD	100- 84
B5041	SOD	100- 85
B5042	SOD	100- 86
B5051	SOD	100- 87
B5052	SOD	100- 88
B10060	SOD	83- 89
B10061	SOD	83- 90
B10062	SOD	83- 91
B10063	SOD	83- 92
B10064	SOD	81- 51
B10065	SOD	83- 93
B10066	SOD	83- 94
B10067	SOD	83- 95
B10068	SOD	83- 96
B10069	SOD	81- 52
B10142	SOD	82- 60
B10142A	SOD	82- 61
B10142B	SOD	82- 62
B10143	SOD	82- 63
B10143A	SOD	82- 64
B10143B	SOD	82- 65
B10144	SOD	82- 99
B10144A	SOD	82-100
B10144B	SOD	82-101
B10474	♦SOD	81- 53
B10475	♦SOD	80- 84
B10912	♦SOD	82- 66
B10913	♦SOD	82- 67
B102000	SOD	84- 28
B102001	SOD	84- 29
B102002	SOD	84- 30
B102003	SOD	84- 31
B103000	SOD	84- 32
B103001	SOD	84- 33
B103002	SOD	84- 34
B103003	SOD	84- 35
B103004	SOD	84- 36
B113000	♦SOD	84- 85
B113001	♦SOD	84- 86
B113002	♦SOD	84- 87
B113003	♦SOD	84- 88
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B113004	♦SOD	84- 89
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B113005	♦SOD	84- 90
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B143000	♦SOD	96- 11
B143001	♦SOD	96- 12
B143002	♦SOD	96- 13
B143003	♦SOD	96- 14
B143004	♦SOD	96- 15
B143005	♦SOD	96- 16
B143006	♦SOD	96- 17
B143007	♦SOD	96- 18
B143008	♦SOD	96- 19
B143009	♦SOD	96- 20
B143010	♦SOD	96- 21
B143011	♦SOD	96- 22
B143012	♦SOD	96- 23
B143013	♦SOD	96- 24
B143014	♦SOD	96- 25
B143015	♦SOD	96- 26
B143016	♦SOD	96- 27
B143017	♦SOD	96- 28
B143018	♦SOD	96- 29
B143019	♦SOD	96- 30
B143020	♦SOD	96- 31
B143021	♦SOD	96- 32
B143022	♦SOD	96- 33
B143023	♦SOD	96- 34
B143024	♦SOD	96- 35
B143025	♦SOD	96- 36
B143026	♦SOD	96- 37
B143027	♦SOD	96- 38
B143028	♦SOD	96- 39
B143029	♦SOD	96- 40
B145000	♦SOD	101- 84
B145001	♦SOD	101- 85
B145002	♦SOD	101- 86
B145003	♦SOD	101- 87
B145004	♦SOD	101- 88
B145005	♦SOD	101- 89
B145006	♦SOD	101- 90
B145007	♦SOD	101- 91
B145008	♦SOD	101- 92
B145009	♦SOD	101- 93
B145010	♦SOD	101- 94
B145011	♦SOD	101- 95
B145012	♦SOD	101- 96
B145013	♦SOD	101- 97
B145014	♦SOD	101- 98
B146000	♦SOD	102- 67
B146001	♦SOD	102- 68
B146002	♦SOD	102- 69
B146003	♦SOD	102- 70
B146004	♦SOD	102- 71
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B146006	♦SOD	102- 73
B146007	♦SOD	102- 74
B146008	♦SOD	102- 75
B146009	♦SOD	102- 76
B146010	♦SOD	102- 77
B146011	♦SOD	102- 78
B146012	♦SOD	102- 79
B146013	♦SOD	102- 80
B146014	♦SOD	102- 81
B148005	SOD	105-106
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B149000	♦SOD	100- 53
B149001	♦SOD	100- 54
B149002	♦SOD	100- 55
B149003	♦SOD	100- 56
B149004	♦SOD	100- 57
B149005	♦SOD	100- 58
B170000	♦SOD	105-107
B170001	♦SOD	105-108
B170002	♦SOD	106- 1
B170003	♦SOD	106- 2
B170004	♦SOD	106- 3
B170005	♦SOD	106- 4
B170006	♦SOD	106- 5
B170007	♦SOD	106- 6
B170008	♦SOD	106- 7
B170009	♦SOD	106- 8
B170010	♦SOD	106- 9
B170011	♦SOD	106- 10
B170012	♦SOD	106- 11
B170013	♦SOD	106- 12
B170014	♦SOD	106- 13
B170015	♦SOD	106- 14
B170016	♦SOD	106- 15
B170017	♦SOD	106- 16
B170018	♦SOD	106- 17
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B170019	♦SOD	106- 18
		113- 1
B170020	♦SOD	106- 19
		113- 12
B170021	♦SOD	106- 20
		112-101
B170022	♦SOD	106- 21
		113- 2
B170023	♦SOD	106- 22
		113- 13
B170024	♦SOD	106- 23
		112-102
B170025	♦SOD	106- 24
		113- 3
B170026	♦SOD	106- 25
		113- 14
B176000	SOD	106- 26
B176001	♦SOD	106- 27
B176002	♦SOD	106- 28
B176003	♦SOD	106- 29
B176004	♦SOD	106- 30
B176005	♦SOD	106- 31
B176006	♦SOD	106- 32
B176007	♦SOD	106- 33
B176008	♦SOD	106- 34
B176009	♦SOD	106- 35
B176010	♦SOD	106- 36
B176011	♦SOD	106- 37
B176012	♦SOD	106- 38
B176013	♦SOD	106- 39
B176014	♦SOD	106- 40
B176015	♦SOD	106- 41
B176024	♦SOD	106- 42
B176025	♦SOD	106- 43
B176026	♦SOD	106- 44
B176027	SOD	106- 45
B176028	SOD	106- 46
B176029	SOD	106- 47
B177000	♦SOD	108- 21
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BB4A	SSCF	127- 20
BB4B	SSCF	127- 21
BB5	SSCF	127- 22
BB5A	SSCF	127- 23
BB5B	SSCF	127- 24
BB5C	SSCF	127- 25
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BC112	♦VALG	52- 44
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BC114A	SGAI	58- 28
BC127	SGAI	52- 68
BC128	SGAI	53- 19
BC129	ALGG	56-101
BC129A	♦ALGG	54- 71
BC129B	♦ALGG	54- 72
BC130	ALGG	56-102
BC130A	♦ALGG	54- 73
BC130B	♦ALGG	54- 74
BC130C	♦ALGG	54- 75
BC131	ALGG	56-103
BC131B	♦ALGG	54- 76
BC131C	♦ALGG	54- 77
BC132A	SGAI	58- 29
BC135A	SGAI	58-110
BC139A	SGAI	51- 20
BC140C	♦ALGG	91-108
	SIEG	
BC140D	♦ALGG	92- 1
	SIEG	
BC147☑	♦ALGG	59- 97
BC148☑	♦ALGG	59- 98
BC149☑	♦ALGG	59- 99
BC150	AEIL	58- 67
BC151	AEIL	58- 68
BC152	AEIL	66- 5
BC155	ALGG	54- 70
BC155A	ALGG	54- 22
BC155B	ALGG	54- 23
BC155C	ALGG	54- 24
BC156	ALGG	52- 64
BC156A	ALGG	52- 35
BC156B	ALGG	52- 36
BC156C	ALGG	52- 37
BC157VI	SIEG	48- 53
BC158VI	SIEG	48- 54
BC167☑	♦ALGG	59- 93
BC168☑	♦ALGG	59- 94
BC169☑	♦ALGG	59-100
BC174	INTG	58- 34
BC175	AEIL	69- 48
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BC194	ALGG	54- 27
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BC196A	ALGG	46-103
BC196B	ALGG	47- 1
BC196VI	ALGG	46- 92
BC197	♦ALGG	52- 48
BC197A	ALGG	52- 49
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BC199	♦ALGG	52- 55
BC199B	ALGG	52- 56
BC199C	ALGG	52- 57
BC210	MISI	68- 58
	THCF	
BC212VI	♦SIEG	48- 68
BC214LA	♦TIIB	48- 69
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BC215A	MISI	50- 65
	THCF	
BC215B	MISI	50- 66
	THCF	
BC216A	SGAI	72- 21
BC216B	SGAI	72- 22
BC220	SGAI	58- 21
BC226	SGAI	71- 14
BC237☑	♦ALGG	59- 95
	APX	
BC238☑	♦ALGG	59- 96
	APX	
BC239☑	♦ALGG	59-101
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BC250	INTG	47- 15
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BC261	INTG	48- 16
BC263	INTG	48- 17
BC271	SGAI	63- 66
BC272	SGAI	63- 67
BC281A	SGAI	49- 18
BC281B	SGAI	49- 19
BC281C	SGAI	49- 20
BC289A	SGAI	65- 62
BC289B	SGAI	65- 63
BC290B	SGAI	65- 64
BC290C	SGAI	65- 65
BC291A	SGAI	49- 21
BC291D	SGAI	49- 22
BC292A	SGAI	49- 23
BC292B	SGAI	49- 24
BC295	SGAI	58- 24
BC327-01	ELMA	50- 54
BC327/BC328	SIEG	124- 32
BC328-01	ELMA	50- 55
BC337-01	ELMA	68- 1
BC338-01	ELMA	68- 2
BC338/BC328	SIEG	124- 33
BC381	TIID	51- 15
BC385A	TIID	63- 50
BC385B	TIID	63- 51
BC386A	TIID	63- 52
BC386B	TIID	63- 53
BC404	SGAI	49- 45
BC404A	SGAI	49- 46
BC404VI	SGAI	49- 47
BC405	SGAI	49- 48
BC405A	SGAI	49- 49
BC405B	SGAI	49- 50
BC406	SGAI	49- 51
BC406B	SGAI	49- 52
BC411	SGAI	63- 5
BC412	SGAI	69- 7
BC420	SGAI	50- 67
BC507	SGAI	66- 16
BC507A	SGAI	66- 17
BC507B	SGAI	66- 18
BC508	SGAI	66- 19
BC508A	SGAI	66- 20
BC508B	SGAI	66- 21
BC508C	SGAI	66- 22
BC509	SGAI	66- 23
BC509B	SGAI	66- 24
BC509C	SGAI	66- 25
BC510	SGAI	66- 26
BC510B	SGAI	66- 27
BC510C	SGAI	66- 28
BC1073	SOD	none
Repl.by 2N2288 Cur.		
BC1073A	SOD	none
Repl.by 2N2289 Cur.		
BC1073B	SOD	none
Repl.by 2N2290 Cur.		
BC1274	SOD	none
Repl.by 2N2294 Cur.		
BC1274A	SOD	none
Repl.by 2N2295 Cur.		
BC1274B	SOD	none
Repl.by 2N2296 Cur.		
BC2290	SOD	none
Repl.by 2N2290 Cur.		
BCW50	SGAI	68- 86
BCW51	TIID	63- 87
BCW52	TIID	48- 70
BCW60A	♦SIEG	56- 27
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BCW60B	♦SIEG	56- 28
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BCW60C	♦SIEG	56- 29
		118- 37
BCW60D	♦SIEG	56- 30
		118- 38
BCW61A	♦SIEG	46- 93
		118- 39
BCW61B	♦SIEG	46- 94
		118- 40
BCW61C	♦SIEG	46- 95
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BCW61D	♦SIEG	46- 96
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BCY15	SIEG	68- 46
BCY16	SIEG	68- 47
BCY20	SIEG	49- 12
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BCY51	INTG	62- 99
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	VALG	
BCZ14	APX	46- 14
PHIN	RTCF	
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BD106B	INTG	96- 84
BD107	ITTB	96- 85
BD107A	INTG	96- 86
BD107B	INTG	96- 87
BD109	SIEG	98- 33
BD109-6	SIEG	98- 67
BD109-10	SIEG	98- 68
BD109-16	SIEG	98- 69
BD112	SGAI	99- 82
BD113	SGAI	99- 83
BD116	SGAI	99- 84
BD118	SGAI	99- 85
BD119	SGAI	96- 96
BD120	SGAI	97- 26
BD145	RTCF	99- 86
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BD148	SIEG	98-102
BD149	SIEG	98-103
BD251	SGAI	99- 87
BD262L	RTCF	129- 97
BD263L	RTCF	129- 98
BD264	RTCF	129- 99
	♦VALG	
BD264A	RTCF	129-100
	♦VALG	
BD264B	RTCF	129-101
BD264L	RTCF	129-102
BD265	RTCF	129-103
	♦VALG	
BD265A	RTCF	129-104
	♦VALG	
BD265B	RTCF	129-105
BD265L	RTCF	129-106
BD266L	RTCF	129-107
BD267L	RTCF	129-108
BD271	RTCF	100- 89
	♦VALG	
BD272	RTCF	88- 74
	♦VALG	
BD273	RTCF	100- 90
	♦VALG	
BD274	RTCF	88- 75
	♦VALG	
BD275	RTCF	100- 91
	♦VALG	
BD276	RTCF	88- 76
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BD400	♦TIID	98- 84
BD433A	SIEG	100-105
BD433B	SIEG	100-106
BD433C	SIEG	100-107
BD434A	SIEG	88- 84
BD434B	SIEG	88- 85
BD434C	SIEG	88- 86
BD435A	SIEG	100-108
BD435B	SIEG	100-109
BD435C	SIEG	100-110
BD436A	SIEG	88- 87
BD436B	SIEG	88- 88
BD436C	SIEG	88- 89
BD533	SIEG	90- 30
BD534	SIEG	88- 1
BD535	SIEG	90- 31
BD536	SIEG	88- 2
BD537	SIEG	90- 32
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BDX66L	RTCF	130- 3
BDX67L	RTCF	130- 4
BDY15	INTG	96- 93
BDY15A	INTG	96- 88
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BDY15B	INTG	96- 89
	ITTB	
BDY16	INTG	96- 94
BDY16A	INTG	96- 90
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BDY88	♦SIEG	100- 39
BDY89	♦SIEG	100- 40
BF109	MULB	92- 11
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BF114	ALGG	69- 49
	SIEG	
BF115△	MISI	54- 82
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BF118	INTG	71- 87
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BF119	INTG	71- 85
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BF121	♦INTG	65- 43
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BF123	♦INTG	65- 45
	TIIB	
BF125	♦INTG	65- 44
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BF140	MISI	71- 15
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BF140A	MISI	71- 16
	THCF	
BF157B	SGAI	71- 40
BF168	ALGG	62- 29
BF169	MISI	63- 88
	THCF	
BF187	MISI	56- 92
	THCF	
BF188	MISI	59- 34
	THCF	
BF189	MISI	56- 90
	THCF	
BF196-01	ELMA	61- 92
BF197-01	ELMA	61-109
BF206	MISI	59- 13
	THCF	
BF207	MISI	56- 48
	THCF	
BF208	MISI	60- 13
	THCF	
BF209	MISI	59- 14
	THCF	
BF212	MISI	59- 45
	THCF	
BF213	MISI	59- 35
	THCF	

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK Obs-In this book

△-Registered with JEDEC by this manufacturer

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
BF214	MISI	56 - 82
	THCF	
BF215	MISI	56 - 83
	THCF	
BF216	AEIL	58 - 79
BF217	AEIL	58 - 93
BF218	AEIL	58 - 83
BF219	AEIL	54 - 31
BF220	AEIL	54 - 32
BF226	MISI	56 - 84
	THCF	
Repl.by 2N1711 Cur.		
BF227	ALGG	52 - 59
BF228	ALGG	52 - 38
BF229	ALGG	52 - 47
BF230	ALGG	52 - 45
BF232	SIEG	62 - 30
BF310☑	♦SIEG	64 - 87
BF314☑	♦SIEG	64 - 80
BF317	SGAI	49 - 86
BF384	TIID	62 - 11
BF385	TIID	62 - 12
BF397A	♦TIID	51 - 16
BF397B	♦TIID	51 - 17
BF398A	♦TIID	51 - 18
BF398B	♦TIID	51 - 19
BFR14	♦SIEG	62 - 28
BFR34	♦SIEG	59 - 77
BFR35	♦SIEG	59 - 78
BFR83	♦APX	92 - 95
BFS10	SGAI	72 - 49
BFS12	SGAI	51 - 45
BFS18CA	SIEG	54 - 29
BFS19CB	SIEG	54 - 30
BFS22	APX	94 - 60
♦ELMA	♦PHIN	
♦RTCF	VALG	
BFS22R	APX	94 - 61
BFS23	APX	94 - 62
♦ELMA	♦PHIN	
♦RTCF	VALG	
BFS23R	APX	94 - 63
BFS28R	APX	75 - 74
BFS29P	TIIB	56 - 8
BFS30	TIIB	63 - 54
BFS30P	TIIB	56 - 9
BFS31	TIIB	63 - 55
BFS31P	TIIB	56 - 10
BFS32	TIIB	48 - 71
BFS32P	TIIB	46-104
BFS33	TIIB	48 - 72
BFS33P	TIIB	46-105
BFS34	TIIB	48 - 73
BFS34P	TIIB	46-106
BFS57	♦TIIB	59 - 69
BFS57P	♦TIIB	54 - 66
BFS58	♦TIIB	59 - 74
BFS58P	♦TIIB	54 - 68
BFS67	TIIB	76 - 6
Repl.by 2N3927 Cur.		
BFS67P	TIIB	75 - 53
BFS68	TIIB	76 - 7
Repl.by 2N3375 Cur.		
BFS68P	TIIB	75 - 54
BFS69	ALGG	46 - 24
BFS86	ALGG	93 - 34
BFW46	♦VALG	none
Repl.by 2N3924 Cur.		
BFW47	♦VALG	none
Repl.by 2N3553 Cur.		
BFW69	SGAI	72 - 50
BFW71	♦SGAI	69 - 28
		119 - 41
BFW73	♦SGAI	64-109
BFW73A	♦SGAI	64-110
BFW74	♦SGAI	65 - 1
BFW75	♦SGAI	65 - 2
BFW76	♦SGAI	65 - 5
BFW76A	♦SGAI	65 - 11
BFW77	♦SGAI	62 - 19
BFW77A	♦SGAI	62 - 21
BFW78	♦SGAI	56 - 77
BFW79	♦SGAI	62 - 22
BFW98	♦RTCF	64-107
BFX10	SGAI	124 - 34
BFX14	ELMA	72 - 17
	SGAI	
BFX42	SGAI	65 - 9
		129 - 63
BFX49	♦RTCF	92 - 74
BFX53	♦ALGG	65 - 6
BFX75	RTCF	52 - 74
BFX76	RTCF	52 - 75
BFX78	♦SGAI	77 - 7
BFX82	♦SGAI	73 - 82
BFX83	♦SGAI	73 - 83
BFY13	SIEG	70 - 73
BFY14	SIEG	70 - 74
BFY15	ITTB	69-107
		117 - 94
BFY16	ITTB	70 - 6
		118 - 26
BFY21	ITTB	128 - 54
BFY23A	INTG	52 - 62
BFY28	INTG	64 - 64
	PLSB	
BFY37I	SELG	56 - 21
BFY39I	SELG	61 - 31
BFY47	SIEG	52 - 69
BFY50I	SELG	61 - 6
BFY51I	SELG	61 - 1
BFY55	APX	none
♦ELMA	PHIC	
PHIN	RTCF	
TADI	TIIF	
	♦VALG	
Repl.by 2N2297 Cur.		

TYPE No.	MFRS	Pg&Line
BFY67	APX	none
ELMA	PHIC	
♦PHIN	♦RTCF	
TADI	TIIF	
	♦VALG	
Repl.by 2N1613 Cur.		
BFY68	APX	none
PHIC	♦PHIN	
♦RTCF	TIIF	
	♦VALG	
Repl.by 2N1711 Cur.		
BFY69	ALGG	54 - 25
BFY69A	ALGG	54 - 26
BFY87	ALGG	52 - 39
BFY87A	ALGG	52 - 40
BFY90B	♦MULB	59 - 60
BFY99	SIEG	92 - 75
BFZ10	ASMB	46 - 9
BLY10	ITTB	97 - 27
		117 - 76
BLY11	ITTB	97 - 28
		118 - 27
BLY15	BRUB	97 - 29
INTG	ITTB	
BLY15A	ITTB	96 - 92
BLY16	INTG	96 - 80
BLY17A	♦MULB	104 - 84
	RTCF	
BLY17C	RTCF	104 - 85
BLY20	RTCF	97 - 30
	♦VALG	
BLY21	RTCF	97 - 31
	♦VALG	
BLY25	SGAI	101 - 1
BLY26	SGAI	101 - 2
BLY27	MISI	96 - 97
	THCF	
BLY28	MISI	96 - 98
	THCF	
BLY29	SGAI	99 - 12
		116 - 82
BLY30	SGAI	99 - 13
		117 - 5
BLY37	♦ELMA	97 - 7
♦PHIN	♦RTCF	119 - 66
	VALG	
BLY38	♦ELMA	92 - 37
♦MULB	♦PHIN	
♦RTCF	VALG	
BLY53	♦ELMA	97 - 8
♦MULB	♦PHIN	
♦RTCF	VALG	
BLY57	RTCF	none
	♦VALG	
Repl.by 2N3926 Cur.		
BLY58	RTCF	none
	♦VALG	
BLY59	♦VALG	none
Repl.by 2N3375 Cur.		
BLY60	♦VALG	none
Repl.by 2N3632 Cur.		
BLY64	♦SGAI	101 - 99
BLY65	♦SGAI	88 - 91
BLY66	♦SGAI	99 - 14
BLY68	♦SGAI	100 - 59
BLY70	♦SGAI	101-100
BLY72	SGAI	106 - 48
BLY74	SGAI	96 - 41
BLY76	♦ELMA	93 - 37
♦PHIN	RTCF	
	VALG	
BLY80	ALGG	95 - 91
BLY81	ALGG	97-104
BLY86	SGAI	96 - 99
BLY87	APX	97-105
♦ELMA	♦PHIN	
♦RTCF	VALG	
BLY88	APX	98-104
♦ELMA	♦PHIN	
♦RTCF	VALG	
BLY89	APX	100 - 60
♦ELMA	MULB	
♦PHIN	♦RTCF	
	VALG	
BLY91	APX	97 - 12
♦ELMA	♦PHIN	
♦RTCF	VALG	
BLY92	APX	98-105
♦ELMA	♦PHIN	
♦RTCF	VALG	
BLY93	APX	100 - 61
♦ELMA	MULB	
♦PHIN	♦RTCF	
	VALG	
BLY95	ALGG	95 - 92
BLY96	ALGG	97 - 95
BLY98	♦MULB	90 - 33
BLY99	RTCF	90 - 34
BPX30	♦RTCF	126 - 44
BPX59	ALGG	126 - 45
BPY62	SIEG	126 - 46
BPY66	♦SGAI	126 - 47
BR100A	SOD	96 - 42
		129 - 64
BR100C	SOD	101-101
		129 - 65
BR100E	SOD	102 - 82
		129 - 66
BR100F	SOD	101-102
		129 - 67
BR101A	SOD	96 - 43
		129 - 68

TYPE No.	MFRS	Pg&Line
BR101C	SOD	101-103
		129 - 69
BR101E	SOD	102 - 83
		129 - 70
BR101F	SOD	101-104
		129 - 71
BR200A	SOD	102 - 84
		129 - 72
BR200B	SOD	101-105
		129 - 73
BR201A	SOD	102 - 85
		129 - 74
BR201B	SOD	101-106
		129 - 75
BSC1015	SOD	109 - 53
BSC1015A	SOD	109 - 54
BSC1015B	SOD	109 - 55
BSC1016	SOD	109 - 56
BSC1016A	SOD	109 - 57
BSC1016B	SOD	109 - 58
BSS19	♦TIID	59-104
BSS20	♦TIID	59-105
BSS21	♦TIID	61 - 95
		120 - 72
BSS22	♦TIID	48 - 13
		120 - 87
BSS25	SIEG	118 - 89
BSS43	♦ALGG	92 - 96
		117 - 65
BSS58A	ALGG	127 - 26
BSS58B	ALGG	127 - 27
BSV20	SGAI	74 - 28
		112 - 60
BSV20A	SGAI	74 - 29
		112 - 61
BSV22	♦VALG	75 - 75
		127 - 71
BSV34	SGAI	74 - 47
		112 - 62
BSV34A	SGAI	74 - 48
		112 - 63
BSV38	♦TIIB	76 - 8
		112 - 5
BSV38P	♦TIIB	75 - 55
		112 - 6
BSV39	♦TIIB	76 - 9
BSV39P	♦TIIB	75 - 56
BSV50E	SGAI	121 - 51
BSV50F	SGAI	121 - 52
BSV50G	SGAI	121 - 53
BSV51	ALGG	61 - 2
BSV53	TIIB	64 - 65
		120 - 46
BSV53P	TIIB	56 - 49
		120 - 47
BSV54	TIIB	64 - 66
		120 - 48
BSV54P	TIIB	56 - 50
		120 - 49
BSV55	TIIB	48 - 81
		120 - 88
BSV55A	TIIB	48 - 82
		120 - 92
BSV55AP	TIIB	47 - 3
		120 - 93
BSV55P	TIIB	47 - 4
		120 - 89
BSV56A	ALGG	127 - 28
BSV56B	ALGG	127 - 29
BSV56C	ALGG	127 - 30
BSV57A	ALGG	127 - 31
BSV57C	ALGG	127 - 32
BSV58A	ALGG	127 - 33
BSV58B	ALGG	127 - 34
BSV83	SGAI	51 - 46
		117 - 66
BSV85	SGAI	66 - 51
		119 - 3
BSW10	♦ALGG	70 - 26
		118 - 99
BSW11	ALGG	52 - 58
		120 - 81
BSW12	ALGG	52 - 46
		118 - 85
BSW13	♦SIEG	56 - 88
		119 - 46
BSW20	♦ALGG	47 - 64
		118 - 7
BSW30	♦SGAI	74 - 30
		112 - 46
BSW31	♦SGAI	74 - 31
		112 - 47
BSW33	♦RTCF	54 - 62
	♦VALG	120 - 21
BSW34	♦RTCF	54 - 63
	♦VALG	120 - 22
BSW35	♦RTCF	54 - 64
	♦VALG	120 - 23
BSW39	ALGG	70 - 68
		116 - 95
BSW40	ALGG	51 - 21
		116 - 96
BSW51	VALG	none
Repl.by 2N2218 Cur.		
BSW52	VALG	none
Repl.by 2N2219 Cur.		
BSW53	VALG	none
Repl.by 2N2218A Cur.		
BSW54	VALG	none
Repl.by 2N2219A Cur.		
BSW61	VALG	none
Repl.by 2N2221 Cur.		
BSW62	VALG	none
Repl.by 2N2222 Cur.		

TYPE No.	MFRS	Pg&Line
BSW63	VALG	none
Repl.by 2N2221A Cur.		
BSW64	VALG	none
Repl.by 2N2222A Cur.		
BSW66△	♦MULB	71 - 63
		117 - 42
BSW67△	♦MULB	71 - 64
		117 - 43
BSW68△	♦MULB	71 - 65
		117 - 44
BSW78	INTG	59 - 4
		120 - 61
BSW79	INTG	121 - 4
BSW80	INTG	59 - 15
		121 - 38
BSW81	INTG	47 - 50
		120 - 94
BSW88	♦ALGG	60 - 9
		118-103
BSW89	♦ALGG	60 - 10
		118-104
BSW92	♦MISI	64 - 26
	♦THCF	118 - 17
BSW95	SGAI	74 - 15
		112 - 70
BSW95A	SGAI	74 - 16
		112 - 71
BSX19	BELI	none
ELMA	♦MULB	
♦PHIC	♦PHIN	
♦RTCF	SGAI	
TADI	TIIB	
♦TIIF	♦VALG	
Repl.by 2N2368 Cur.		
BSX19Ø	none	66-102
		120- 62
BSX20%	VALG	121 - 5
BSX20Ø	none	67 - 18
		121 - 6
BSX31	SGAI	127 - 72
BSX34	SGAI	74 - 49
		127 - 73
BSX62B	SIEG	92 - 97
BSX62C	SIEG	92 - 98
BSX62D	SIEG	92 - 99
BSX63B	SIEG	92-100
BSX63C	SIEG	92-101
BSX80	ALGG	62 - 31
		119 - 89
BSX81	♦ALGG	60 - 11
		118-105
BSX81A	ALGG	63 - 89
		118-106
BSX81B	ALGG	63 - 90
		118-107
BSX83	SGAI	74 - 17
		112 - 67
BSX84	SGAI	74 - 18
		112 - 68
BSX85	SGAI	74 - 50
		128 - 55
BSX86	SGAI	74 - 51
		128 - 56
BSX94	♦SGAI	48 - 90
		121 - 37
BSX94A	SGAI	68 - 17
BSX97	MISI	68 - 3
	THCF	118 - 59
BSY20	INTG	none
Repl.by 2N706B Obs.		
BSY22	INTG	none
Repl.by 2N916 Obs.		
BSY23	INTG	none
Repl.by 2N834 Obs.		
BSY32	ITTB	53 - 86
		118 - 48
BSY33	ITTB	53 - 87
		118 - 47
BSY36	ITTB	53 - 99
		119 - 69
BSY37	ITTB	53-100
		119 - 67
BSY42	ITTB	124 - 35
BSY43	ITTB	124 - 36
BSY47	ITTB	53 - 88
		118 - 49
BSY50	ITTB	53-101
		119 - 68
BU130	♦APX	102 - 86
BUY12	SIEG	106 - 49
BUY13	SIEG	106 - 50
BUY14	SIEG	101-107
BUY16	SGAI	98 - 70
		117 - 99
BUY17	SGAI	98 - 71
		117-100
BUY19	♦SGAI	99 - 88
		117 - 11
BUY26	♦SIEG	90 - 74
		113 - 67
BUY27	♦SIEG	90 - 75
		113 - 68
BUY28	♦SIEG	90 - 76
		113 - 69
BUY43	♦SIEG	98-106
BUY44	♦SIEG	105 - 29
BUY55-4	♦SIEG	105 - 30
		115-101
BUY55-6	♦SIEG	105 - 31
		115-102
BUY55-10	♦SIEG	105 - 32
		115-103
BUY56-4	♦SIEG	105 - 33
		115-104

TYPE No.	MFRS	Pg&Line
BUY56-6	♦SIEG	105 - 34
		115-105
BUY56-10	♦SIEG	105 - 35
		115-106
BUY72-4	♦SIEG	105 - 36
		115-107
BUY72-6	♦SIEG	105 - 37
		115-108
BUY72-10	♦SIEG	105 - 38
		115-109
C5	NECJ	55 - 92
C6	NECJ	46 - 86
C7	NECJ	46 - 87
C8	NECJ	46 - 88
C63	FSC	66 - 52
	SGAI	
C64	FSC	66 - 53
	SGAI	
C80	SLCB	76 - 10
C84	SLCB	75 - 76
C85	SLCB	75 - 77
C101	TCY	47 - 72
C102	TCY	47 - 77
C103	TCY	none
Repl.by 2N1642 Cur.		
C106	♦TCY	47 - 85
		122 - 19
C112	TCY	47 - 76
C118	TCY	47 - 79
C119	TCY	47 - 80
C201	TCY	122 - 20
C202	TCY	122 - 21
C301	TCY	122 - 22
C301A	TCY	122 - 23
C302	TCY	122 - 24
C401	TCY	122 - 25
C402	TCY	122 - 26
C420	SGAI	71 - 61
C434	SGAI	99 - 89
		117 - 96
C442	SGAI	65-106
C502	TCY	122 - 27
C610	TCY	122 - 41
C611	TCY	122 - 42
C612	TCY	122 - 43
C613	TCY	122 - 44
C614	TCY	122 - 45
C615	TCY	122 - 46
C620	TCY	122 - 47
C621	TCY	122 - 48
C622	TCY	122 - 49
C623	TCY	122 - 50
C624	TCY	122 - 51
C625	TCY	122 - 52
C631	TCY	122 - 53
C632	TCY	122 - 54
C633	TCY	122 - 55
C640	TCY	122 - 56
C641	TCY	122 - 57
C642	TCY	122 - 58
C643	TCY	122 - 59
C644	TCY	122 - 60
C650	TCY	122 - 61
C651	SGAI	72 - 9
	TCY	122 - 62
C652	SGAI	67 - 24
	TCY	122 - 63
C653	TCY	122 - 64
C660	TCY	none
Repl.by 2N3084 Cur.		
C661	TCY	none
Repl.by 2N3085 Cur.		
C664	TCY	none
Repl.by 2N3086 Cur.		
C665	TCY	none
Repl.by 2N3087 Cur.		
C666	TCY	none
Repl.by 2N3088 Cur.		
C667	TCY	none
Repl.by 2N3089 Cur.		
C673	♦TCY	77 - 9
C674	♦TCY	77 - 10
C680	♦TCY	75 - 78
C680A	♦TCY	75 - 79
C682	♦TCY	75 - 80
C682A	♦TCY	75 - 81
C684	♦TCY	75 - 82
C684A	♦TCY	75 - 83
C720	SGAI	67 - 8
		120-100
C722	SGAI	66 - 96
		120 - 33
C740	SGAI	67 - 9
C742	SGAI	66 - 97
C762	SGAI	68 - 13
C764	SGAI	71 - 72
C1001	SGAI	66-103
		120 - 63
C1002	SGAI	58 - 16
C1003	SGAI	65 - 88
C1004	SGAI	62-100
		117 - 1
C7076	♦TCY	62 - 76
		127 - 74
C9001	TCY	none
Repl.by 2N2944 Cur.		
C9002	TCY	none
Repl.by 2N2945 Cur.		
C9003	TCY	none
Repl.by 2N2946 Cur.		
C9080	♦TCY	50 - 25
C9081	♦TCY	50 - 28
C9082	♦TCY	50 - 26
C9083	♦TCY	50 - 29

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK Obs-In this book

△-Registered with JEDEC by this manufacturer

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IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
C9084	♦TCY	50 - 27
C9085	♦TCY	50 - 30
CA3018	RCA	128 - 57
CA3036	RCA	128 - 58
CB1F4	HON	none
Repl.by 2N1502 Cur.		
CD91	♦TCY	49 - 90
		124 - 37
CD92	TCY	49 - 91
		124 - 38
CD93	TCY	49 - 92
		124 - 39
CD94	TCY	49 - 93
		124 - 40
CD95	TCY	49 - 94
		124 - 41
CD96	TCY	49 - 95
		124 - 42
CD97	TCY	49 - 96
		124 - 43
CD98	TCY	49 - 97
		124 - 44
CD912	TCY	49 - 98
		124 - 45
CD922	TCY	49 - 99
		124 - 46
CD932	TCY	49-100
		124 - 47
CD942	TCY	49-101
		124 - 48
CD952	TCY	49-102
		124 - 49
CD962	TCY	49-103
		124 - 50
CD972	TCY	49-104
		124 - 51
CD982	TCY	49-105
		124 - 52
CDQ10001	TSC	55 - 13
CDQ10002	TSC	68 - 68
CDQ10003	TSC	55 - 23
CDQ10004	TSC	68 - 72
CDQ10005	TSC	55 - 29
CDQ10006	TSC	68 - 74
CDQ10007	TSC	none
Repl.by 2N335 Cur.		
CDQ10008	TSC	68 - 76
CDQ10009	TSC	55 - 41
CDQ10010	TSC	68 - 78
CDQ10011	TSC	72 - 30
CDQ10012	TSC	72 - 31
CDQ10013	TSC	none
Repl.by 2N341 Cur.		
CDQ10014	TSC	72 - 32
CDQ10015	TSC	none
Repl.by 2N343 Cur.		
CDQ10016	TSC	57 - 83
CDQ10017	TSC	57 - 84
CDQ10018	TSC	57 - 85
CDQ10019	TSC	57 - 86
CDQ10020	TSC	57 - 87
CDQ10021	TSC	57 - 88
CDQ10022	TSC	57 - 89
CDQ10023	TSC	57 - 92
CDQ10024	TSC	57 - 93
CDQ10025	TSC	none
Repl.by 2N480 Cur.		
CDQ10026	TSC	57 - 94
CDQ10027	TSC	57 - 95
CDQ10028	TSC	none
Repl.by 2N1704 Cur.		
CDQ10032	TSC	67 - 45
CDQ10033	TSC	72 - 33
CDQ10034	TSC	72 - 34
CDQ10035	TSC	57 - 48
CDQ10036	TSC	57 - 49
CDQ10037	TSC	72 - 35
CDQ10044	TSC	72 - 37
CDQ10045	TSC	72 - 38
CDQ10046	TSC	71 - 57
CDQ10047	TSC	71 - 58
CDQ10048	TSC	71 - 88
CDQ10049	TSC	71 - 11
CDQ10051	TSC	none
Repl.by 2N547 Cur.		
CDQ10052	TSC	none
Repl.by 2N548 Cur.		
CDQ10053	TSC	none
Repl.by 2N549 Cur.		
CDQ10054	TSC	none
Repl.by 2N550 Cur.		
CDQ10055	TSC	none
Repl.by 2N551 Cur.		
CDQ10056	TSC	none
Repl.by 2N552 Cur.		
CDQ10057	TSC	none
Repl.by 2N1116 Cur.		
CDQ10058	TSC	none
Repl.by 2N1117 Cur.		
CDT1309	STC	82 - 68
CDT1315	STC	82 - 69
CDT1349	CLE	none
Repl.by 2N2063 Cur.		
CDT1349A	CLE	none
Repl.by 2N2064 Cur.		
CDT1350	CLE	none
Repl.by 2N2065 Cur.		
CDT1350A	CLE	none
Repl.by 2N2066 Cur.		
CF24	SGAI	75 - 84
CF2386	♦TCY	77 - 66
CFM13026	♦TSC	77-104
CG1	NAS	129 - 58

TYPE No.	MFRS	Pg&Line
CI1	TCY	none
Repl.by 3N102 Cur.		
CI2	TCY	none
Repl.by 3N103 Cur.		
CI3	TCY	none
Repl.by 3N104 Cur.		
CI4	TCY	none
Repl.by 3N101 Cur.		
CI5	TCY	none
Repl.by 3N100 Cur.		
CI2711	TSC	60 - 17
CI2712	TSC	60 - 18
CI2713	TSC	60 - 19
CI2714	TSC	60 - 20
CI2923	TSC	60 - 21
CI2924	TSC	60 - 22
CI2925	TSC	60 - 23
CI2926	TSC	60 - 24
CI3390	TSC	60 - 25
CI3391	TSC	60 - 26
CI3391A	TSC	60 - 27
CI3392	TSC	60 - 28
CI3393	TSC	60 - 29
CI3394	TSC	60 - 30
CI3395	TSC	60 - 31
CI3396	TSC	60 - 32
CI3397	TSC	60 - 33
CI3398	TSC	60 - 34
CI3402	TSC	69 - 38
CI3403	TSC	69 - 39
CI3404	TSC	69 - 40
CI3405	TSC	69 - 41
CI3414	TSC	62 - 43
CI3415	TSC	62 - 44
CI3416	TSC	62 - 45
CI3417	TSC	62 - 46
CI3704	TSC	63 - 17
CI3705	TSC	63 - 18
CI3706	TSC	63 - 19
CI3900	TSC	57 - 50
CI3900A	TSC	57 - 51
CI3901	TSC	57 - 52
CI4256	TSC	57 - 53
CI4424	TSC	65 - 66
CI4425	TSC	69 - 42
CK4	RTN	33 - 43
		115 - 49
CK4A	RTN	33 - 44
		115 - 50
CK13	RTN	33 - 7
CK13A	RTN	33 - 8
CK14	RTN	33 - 23
CK14A	RTN	33 - 24
CK16	RTN	33 - 36
CK16A	RTN	33 - 37
CK17	RTN	32 - 70
CK17A	RTN	33 - 48
CK22	RTN	32 - 98
CK22A	RTN	32 - 99
CK22B	RTN	31 - 26
CK22C	RTN	31 - 27
CK25	RTN	33 - 14
		114 - 73
CK25A	RTN	33 - 15
		114 - 74
CK26	RTN	33 - 20
		114-110
CK26A	RTN	33 - 21
		115 - 1
CK27	RTN	33 - 39
		115 - 41
CK27A	RTN	33 - 40
		115 - 42
CK28	RTN	33 - 46
		115 - 58
CK28A	RTN	33 - 47
		115 - 59
CK64	RTN	32 - 76
CK64A	RTN	32 - 77
CK64B	RTN	32 - 78
CK64C	RTN	32 - 79
CK65	RTN	32 - 89
CK65A	RTN	32 - 90
CK65B	RTN	32 - 91
CK65C	RTN	32 - 92
CK66	RTN	32-100
CK66A	RTN	32-101
CK66B	RTN	32-102
CK66C	RTN	32-103
CK67	RTN	32-109
CK67A	RTN	32-110
CK67B	RTN	33 - 1
CK67C	RTN	33 - 2
CK83	RTN	31 - 54
CK86	RTN	31 - 83
CK256	RTN	80 - 3
CK258	RTN	80 - 4
CK261	RTN	44 - 67
CK262	RTN	44 - 68
CK273	RTN	122 - 3
CK277	RTN	122 - 4
CK311	RTN	80 - 5
CK312	RTN	80 - 6
CK313	RTN	80 - 7
CK314	RTN	80 - 8
CK315	RTN	80 - 9
CK398	RTN	60 - 35
CK411	RTN	80 - 10
CK412	RTN	80 - 11
CK413	RTN	80 - 12
CK414	RTN	80 - 13
CK415	RTN	80 - 14
CK419	RTN	60 - 74
CK420	RTN	60 - 75

TYPE No.	MFRS	Pg&Line
CK421	RTN	60 - 76
CK422	RTN	60 - 77
CK474	RTN	60 - 78
CK475	RTN	60 - 79
CK476	RTN	60 - 80
CK477	RTN	60 - 81
CK721	♦RTN	46 - 5
CK722	♦RTN	46 - 6
CK725	♦RTN	46 - 7
CK727	♦RTN	46 - 8
CK751	RTN	38 - 55
CK754	RTN	35 - 19
CK759	RTN	none
Repl.by 2N111 Cur.		
CK759A	RTN	none
Repl.by 2N111A Cur.		
CK760	RTN	none
Repl.by 2N112 Cur.		
CK760A	RTN	none
Repl.by 2N112A Cur.		
CK761	RTN	none
Repl.by 2N113 Cur.		
CK762	RTN	none
Repl.by 2N114 Cur.		
CK766	RTN	27 - 5
CK766A	RTN	27 - 6
CK790	RTN	46 - 2
CK791	RTN	46 - 4
CK793	RTN	46 - 3
CK798	RTN	none
Repl.by 2N1654 Cur.		
CK799	RTN	none
Repl.by 2N1655 Cur.		
CK800	RTN	none
Repl.by 2N1656 Cur.		
CK870	RTN	37 - 77
CK871	RTN	37 - 78
CK891	RTN	28 - 45
CK892	RTN	28 - 46
CK942	RTN	none
Repl.by 2N1623 Cur.		
CLR2090	♦CLA	126 - 48
CLR2191	♦CLA	126 - 49
CLT4160	♦CLA	126 - 50
CLT4170	♦CLA	126 - 51
CM600	♦TCY	76 - 11
CM601	♦TCY	76 - 12
CM602	♦TCY	76 - 13
CM603	♦TCY	76 - 14
CMX740	♦TCY	77 - 11
		112 - 41
CP98	CPC	38 - 91
	TADI	
CP398	CPC	36 - 39
	TADI	
CP400	SGAI	99 - 90
CP401	SGAI	99 - 91
CP402	SGAI	99 - 92
CP403	SGAI	71 - 33
CP404	SGAI	99 - 93
CP405	SGAI	99 - 94
CP406	SGAI	99 - 95
		117-101
CP407	SGAI	99 - 96
		117-102
CP408	SGAI	99 - 97
		117 - 97
CP430	SGAI	101 - 3
CP431	SGAI	101 - 4
CP432	SGAI	101 - 5
CP433	SGAI	101 - 6
CP657	SGAI	101 - 7
CP701	SGAI	99 - 98
CP702	SGAI	99 - 99
CP703	SGAI	71 - 12
CP704	SGAI	101-108
CP800	CPC	42 - 99
CP801	CPC	42-100
CP802	CPC	42-101
CP803	CPC	42-102
CQ1	NAC	38 - 10
CQT940BA	STC	84 - 91
CRT1544	CLE	84 - 92
	INTG	
CRT1545	CLE	84 - 93
	INTG	
CRT1552	CLE	84 - 94
	INTG	
CRT1553	CLE	84 - 95
	INTG	
CRT1592	INTG	85 - 67
CS696	TSC	68 - 51
		117 - 20
CS718	TSC	63 - 6
		117 - 38
CS718A	TSC	63 - 9
CS720A	TSC	63 - 7
CS918	TSC	62 - 17
CS929	TSC	60 - 91
CS930	TSC	60 - 92
CS956	TSC	63 - 39
CS1613	TSC	68 - 55
CS1711	TSC	68 - 57
CS1893	TSC	68 - 52
CS2218	TSC	68 - 62
		120 - 82
CS2219	TSC	68 - 63
		120 - 83
CS2221	TSC	64 - 67
		120 - 84
CS2222	TSC	64 - 68
		120 - 85
CS2368	TSC	62 - 5
		121 - 36

TYPE No.	MFRS	Pg&Line
CS2481	TSC	61 - 78
		119-109
CS2483	TSC	61 - 7
CS2639	♦TSC	55 - 93
		124 - 53
CS2640	♦TSC	55 - 94
		124 - 54
CS2641	♦TSC	55 - 95
		128 - 59
CS2642	♦TSC	55 - 96
		124 - 55
CS2643	♦TSC	55 - 97
		124 - 56
CS2644	♦TSC	55 - 98
		128 - 60
CS3402	TSC	69 - 43
CS3403	♦TSC	69 - 44
CS3404	TSC	69 - 45
CS3405	TSC	69 - 46
CS29008	♦TSC	55 - 99
		124 - 57
CS29009	♦TSC	55-100
		124 - 58
CS29010	♦TSC	55-101
		128 - 61
CS29011	♦TSC	55-102
		124 - 59
CS29012	♦TSC	55-103
		124 - 60
CS29013	♦TSC	55-104
		128 - 62
CST1739	CLE	none
Repl.by 2N2067 Cur.		
CST1740	CLE	none
Repl.by 2N2067-O Cur.		
CST1741	CLE	none
Repl.by 2N2067G Cur.		
CST1742	CLE	none
Repl.by 2N2067B Cur.		
CST1743	CLE	none
Repl.by 2N2067W Cur.		
CST1744	CLE	none
Repl.by 2N2068 Cur.		
CST1745	CLE	none
Repl.by 2N2068-O Cur.		
CST1746	CLE	none
Repl.by 2N2068G Cur.		
CST1773A	STC	80 - 85
		113 - 70
CST1773B	STC	80 - 86
		113 - 71
CTD1322	CLE	none
Repl.by 2N2423 Cur.		
CTP1002	CLE	78 - 23
CTP1003	CLE	78 - 24
CTP1004	CLE	78 - 25
CTP1005	CLE	78 - 26
CTP1006	CLE	78 - 27
CTP1032	CLE	31 - 16
CTP1033	CLE	31 - 18
	ITT	
CTP1034	CLE	31 - 22
CTP1035	CLE	31 - 28
CTP1036	CLE	31 - 30
CTP1102	CLE	none
Repl.by 2N268 Cur.		
CTP1104	CLE	81 - 54
	INTG	
CTP1106	CLE	none
Repl.by 2N257 Cur.		
CTP1108	CLE	none
Repl.by 2N2061 Cur.		
CTP1109	CLE	none
Repl.by 2N2062 Cur.		
CTP1111	CLE	82 - 70
	INTG	
CTP1112	CLE	82-102
CTP1117	CLE	82-103
CTP1119	CLE	78 - 28
CTP1127	CLE	82-104
CTP1133	CLE	82-105
CTP1135	CLE	82-106
CTP1136	CLE	107 - 10
CTP1137	CLE	82-107
CTP1265	CLE	82-108
CTP1266	CLE	83 - 1
CTP1296	CLE	83 - 2
CTP1297	CLE	83 - 3
CTP1306	CLE	83 - 4
CTP1307	CLE	83 - 5
CTP1314	CLE	83 - 6
CTP1320	CLE	28-101
CTP1330	CLE	29 - 3
CTP1340	CLE	29 - 6
CTP1350	CLE	29 - 10
CTP1360	CLE	29 - 12
CTP1390	CLE	29 - 19
CTP1400	CLE	29 - 25
CTP1410	CLE	29 - 30
CTP1503	STC	84 - 96
CTP1505	CLE	84 - 37
CTP1506	CLE	84 - 38
CTP1507	CLE	84 - 39
CTP1509	CLE	84 - 40
CTP1511	CLE	84 - 41
CTP1512	CLE	84 - 42
CTP1513	CLE	84 - 43
CTP1514	CLE	84 - 44
CTP1530	CLE	85 - 68
CTP1545	CLE	84 - 45
	INTG	
CTP1550	CLE	none
Repl.by 2N2069 Obs.		

TYPE No.	MFRS	Pg&Line
CTP1551	CLE	none
Repl.by 2N2070 Obs.		
CTP1553	CLE	84 - 46
	INTG	
CTP1728	CLE	none
Repl.by 2N1755 Cur.		
CTP1729	CLE	none
Repl.by 2N1757 Cur.		
CTP1730	CLE	none
Repl.by 2N1758 Cur.		
CTP1731	CLE	none
Repl.by 2N1759 Cur.		
CTP1732	CLE	none
Repl.by 2N1761 Cur.		
CTP1733	CLE	none
Repl.by 2N1762 Cur.		
CTP1735	CLE	none
Repl.by 2N1756 Cur.		
CTP1736	CLE	none
Repl.by 2N1760 Cur.		
CTP1739	CLE	none
Repl.by 2N2067 Cur.		
CTP3550	CLE	none
Repl.by 2N2071 Obs.		
CTP3551	CLE	none
Repl.by 2N2072 Obs.		
CYT1549	CLE	85 - 69
CYT1550	CLE	85 - 70
CYT1551	CLE	85 - 71
CYT1552	CLE	85 - 72
CYT1553	CLE	85 - 73
CYT1554	CLE	85 - 74
CYT1555	CLE	85 - 75
CYT1556	CLE	85 - 76
CYT1557	CLE	85 - 77
CYT1558	CLE	85 - 78
CYT1559	CLE	85 - 79
CYT1560	CLE	85 - 80
D4C28	♦GESY	55 - 37
D4C29	♦GESY	55 - 38
D4C30	♦GESY	55 - 39
D4C31	♦GESY	55 - 40
D4D20	♦GESY	54 - 94
		112 - 64
D4D21	♦GESY	54 - 95
		112 - 65
D4D22	♦GESY	54 - 96
		112 - 66
D4D24	♦GESY	54 - 41
D4D25	♦GESY	54 - 42
D4D26	♦GESY	54 - 43
D5E29	GESY	127 - 35
D5E35	GESY	127 - 36
D5E36	GESY	127 - 37
D6	NECJ	56 - 22
D6C	GESY	110 - 21
D7	NECJ	56 - 23
D7A30	♦GESY	93 - 52
D7A31	♦GESY	93 - 53
D7A32	♦GESY	93 - 54
D7B1	GESY	96 - 44
D7B2	GESY	96 - 45
D7C1	GESY	96 - 46
D7C2	GESY	96 - 47
D7C3	GESY	96 - 48
D7D1	GESY	96 - 49
D7D2	GESY	96 - 50
D7D3	GESY	96 - 51
D7D13	GESY	91 - 59
D7E1	GESY	96 - 52
D7E2	GESY	96 - 53
D7E3	GESY	96 - 54
D7F1	GESY	93 - 55
D7F2	GESY	93 - 56
D7F3	GESY	93 - 57
D7F4	GESY	93 - 58
D7G1	GESY	96 - 55
D7G2	GESY	96 - 56
D7G3	GESY	96 - 57
D8	NECJ	56 - 24
D10B551-2,3	GESY	53-102
D10B553-2,3	GESY	53 - 89
D10B555-2,3	GESY	53 - 90
D10B556-2,-3	GESY	53 - 91
D10B1051	GESY	52 - 3
D10B1055	GESY	52 - 4
D10C573-2,-3	GESY	53 - 92
D10C574-2,-3	GESY	53 - 93
D10G1051	GESY	52 - 5
D10G1052	GESY	52 - 6
D10H551-2,-3	GESY	53 - 20
D10H553-2,-3	GESY	53 - 21
D11B551-2,-3	GESY	53 - 25
D11B551-2,3	GESY	53 - 26
D11B552-2,3	GESY	53 - 40
D11B554-2,3	GESY	53 - 52
D11B555-2,-3	GESY	53 - 53
D11B556-2,-3	GESY	53 - 41
D11B560-2,3	GESY	53 - 42
D11B1052	GESY	53 - 65
D11B1055	GESY	53 - 66
D11C1B1	GESY	92-102
D11C1F1	GESY	92 - 16
D11C3B1	GESY	92-103
D11C3F1	GESY	92 - 17
D11C5B1	GESY	92-104
D11C5F1	GESY	92 - 18
D11C7B1	GESY	92-105
D11C7F1	GESY	92 - 12
D11C10B1	GESY	92-106
D11C10F1	GESY	92 - 19
D11C11B1	GESY	92-107
D11C11F1	GESY	92 - 20
D11C201B20	GESY	92-108

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
△-Registered with JEDEC by this manufacturer

Obs-In this book

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
D11C203B20	GESY	92-109
D11C205B20	GESY	92-110
D11C207B20	GESY	93- 1
D11C210B20	GESY	93- 2
D11C211B20	GESY	93- 3
D11C551-2,-3	GESY	53- 43
D11C553-2,-3	GESY	53- 44
D11C557-2,-3	GESY	53- 45
D11C702	GESY	63- 44
D11C704	GESY	63- 45
D11C710	GESY	63- 46
D11C1051	GESY	53- 46
D11C1053	GESY	53- 47
D11C1057	GESY	53- 48
D11C1536	GESY	71- 89
D11E404	GESY	72- 10
		120- 13
D11E405	GESY	72- 11
		120- 18
D11E406	GESY	72- 12
		120- 19
D11E407	GESY	72- 13
		120- 20
D12A8	♦GESY	124- 61
D12E026	♦GESY	124- 62
D12E109	♦GESY	124- 63
D12E126	♦GESY	124- 64
D12X010	♦GESY	128- 63
D12X011	♦GESY	128- 64
D12X012	♦GESY	130- 5
D12X013	GESY	127- 75
D12X014	♦GESY	128- 65
D12X015	♦GESY	128- 66
D12X043	♦GESY	62-101
		116- 84
D12X047	♦GESY	62-102
D12X070	GESY	127- 76
D12X084A	♦GESY	124- 65
D13K1	GESY	127- 38
D13K2	GESY	127- 39
D13K3	GESY	127- 40
D13T1	♦GESY	none
Repl.by 2N6027 Cur.		
D13T2	♦GESY	none
Repl.by 2N6028 Cur.		
D16E7	GESY	58- 42
D16E9	GESY	58- 43
D16K1	GESY	59- 42
D16K2	GESY	59- 43
D16K3	GESY	59- 44
D16K4	GESY	59- 26
D16P2	♦GESY	130- 6
D16P3	♦GESY	128- 67
D16P4	♦GESY	128- 68
D24A3391	GESY	58- 35
D24A3391A	GESY	58- 36
D24A3392	GESY	58- 46
D24A3393	GESY	58- 47
D24A3394	GESY	58- 48
D24A3900	GESY	58- 69
D24A3900A	GESY	58- 70
D26B1	GESY	52- 76
		112- 21
D26B2	GESY	52- 77
		112- 22
D27C1	♦GESY	none
Repl.by D42C5 Cur.		
D27C2	♦GESY	none
Repl.by D42C4 Cur.		
D27C3	♦GESY	none
Repl.by D42C2 Cur.		
D27C4	♦GESY	none
Repl.by D42C1 Cur.		
D27D1	♦GESY	none
Repl.by D43C5 Cur.		
D27D2	♦GESY	none
Repl.by D43C4 Cur.		
D27D3	♦GESY	none
Repl.by D43C2 Cur.		
D27D4	♦GESY	none
Repl.by D43C1 Cur.		
D28A5	♦GESY	95- 5
D28A6	♦GESY	95- 6
D28A9	GESY	93- 59
D28A10	GESY	93- 60
D28A12	♦GESY	95- 7
D28A13	♦GESY	95- 8
D28B	GESY	72- 29
D28C1	♦GESY	none
Repl.by D40C1 Cur.		
D28C2	♦GESY	none
Repl.by D40C2 Cur.		
D28C3	♦GESY	130- 7
D28C4	♦GESY	none
Repl.by D40C4 Cur.		
D28C5	♦GESY	none
Repl.by D40C5 Cur.		
D28C7	♦GESY	none
Repl.by D40C7 Cur.		
D28C8	♦GESY	130- 8
D28D1	♦GESY	none
Repl.by D40D1 Cur.		
D28D2	♦GESY	none
Repl.by D40D2 Cur.		
D28D3	♦GESY	none
Repl.by D40D3 Cur.		
D28D4	♦GESY	none
Repl.by D40D4 Cur.		
D28D5	♦GESY	none
Repl.by D40D5 Cur.		
D28D7	♦GESY	none
Repl.by D40D7 Cur.		
D28D8	♦GESY	none
Repl.by D40D8 Cur.		

TYPE No.	MFRS	Pg&Line
D28D10	♦GESY	96- 78
		117- 49
D28E	♦GESY	none
Repl.by D40N3 Cur.		
D29A6	GESY	48-109
D29A7	GESY	49- 1
D29A8	GESY	49- 2
D29A9	GESY	49- 3
D29A10	GESY	49- 4
		118- 8
D29A11	GESY	49- 5
		118- 9
D29A12	♦GESY	49- 6
D29E8	♦GESY	50- 80
D29E8J1	GESY	51- 22
D31B	♦GESY	none
Repl.by D41D1 Cur.		
D32K1	♦GESY	69- 21
		119- 44
D32K2	♦GESY	69- 22
		119- 45
D32P1	♦GESY	65-104
D32P2	♦GESY	65-105
D33D1	GESY	67- 88
D33D2	GESY	67- 90
D33D3	GESY	67- 91
D33D4	GESY	67- 89
D33D5	GESY	67- 92
D33D6	GESY	67- 93
D33D28	♦GESY	68-104
D33K1	GESY	65- 36
D33K2	GESY	65- 37
D33K3	GESY	65- 38
D1101	DIC	77- 12
D1102	DIC	77- 13
D1103	DIC	77- 14
D1177	DIC	77- 15
D1178	DIC	77- 16
D1179	DIC	77- 17
D1180	DIC	77- 18
D1181	DIC	77- 19
D1182	DIC	77- 20
D1183	DIC	77- 21
D1184	DIC	77- 22
D1185	DIC	77- 23
D1201	DIC	77- 24
D1202	DIC	77- 25
D1203	DIC	77- 26
D1301	DIC	77- 27
D1302	DIC	77- 28
D1303	DIC	77- 29
D1420	♦DIC	77- 30
D1421	♦DIC	77- 31
D1422	♦DIC	77- 32
D1666	GESY	59- 16
DA102	TSC	122- 65
DA402	TSC	122- 66
DAT1A	PLSB	115-110
DAT2	PLSB	27-102
		116- 1
DC5203	AEIL	59- 90
DC5501	♦AEIL	93- 4
DC6112B	AEIL	93- 5
DD07K	♦AMI	74- 8
DD08K	♦AMI	74- 9
DD09K	♦AMI	74- 10
DD10K	♦AMI	74- 11
DD11K	♦AMI	74- 12
DD12J	♦AMI	74- 36
DD13K	♦AMI	74- 37
DD15K	♦AMI	74- 38
		128- 69
DE101	SPR	none
Repl.by 3N90 Cur.		
DE102	SPR	none
Repl.by 3N91 Cur.		
DE103	SPR	none
Repl.by 3N92 Cur.		
DE104	SPR	none
Repl.by 3N93 Cur.		
DE105	SPR	none
Repl.by 3N94 Cur.		
DE106	SPR	none
Repl.by 3N95 Cur.		
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DM06A	♦AMI	74- 43
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DN3067A	DIC	77- 34
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DN3369A	DIC	76- 19
DN3370A	DIC	76- 20
DN3436A	DIC	76- 21
DN3437A	DIC	76- 22
DN3438A	DIC	76- 23
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DNX6	DIC	77- 49
DNX6A	DIC	77- 50
DNX7	♦DIC	77- 51
DNX7A	DIC	77- 52
DNX8	♦DIC	77- 53
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DP1005	TSC	73- 70
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DP1006	TSC	73- 71
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DP1007	TSC	73- 72
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DP1008	TSC	73- 73
		124- 75
DP1009	TSC	73- 74
		124- 76
DP1010	TSC	73- 75
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DPT121	♦SEN	110- 22
DPT122	♦SEN	110- 23
DPT123	♦SEN	110- 24
DPT124	♦SEN	110- 25
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DPT201	TRW	122- 68
DPT657	PSI	none
Repl.by 2N2887 Cur.		
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Repl.by 2N1099 Cur.		
DT100	DEL	none
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DT4111	BRDB	102- 88
	LUCB	
DT4112	BRDB	102- 89
	LUCB	
DT4120	BRDB	102- 90
	LUCB	
DT4121	BRDB	102- 91
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DT4303	LUCB	102- 92
DT4304	LUCB	102- 93
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DTG1011	DEL	85- 81
DTG1040	DEL	85- 82
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DTG5200	♦DEL	85- 93
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DTS106	♦DEL	109- 12
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DTS107	♦DEL	109- 13
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DTS721	♦DEL	106- 51
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DTS3704B	DEL	109- 17
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DTS3705A	DEL	109- 19
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DX58	HUG	none
Repl.by 2N3224 Cur.		
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ED322	SPR	none
Repl.by 2N2795 Cur.		
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EM600	ELE	128- 76
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ES3116	EBAS	27- 77
ES3120	EBAS	28- 34
ES3121	EBAS	28- 35
ES3122	EBAS	28- 36
ES3123	EBAS	28- 37
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ES3501	EBAS	126- 57
ES3511	EBAS	126- 58
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EW58/1	GECB	30- 91
EW58/2	GECB	30- 92
EW59	GECB	30- 93
EW69	GECB	27- 4
EW721	GECB	60- 69
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F3	NECJ	56- 33
F4	NECJ	56- 34
F5	NECJ	56- 35
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F102	FTC	103- 91
F103	FTC	103- 92
F104	FTC	103- 33
F105	FTC	103- 34
F106	FTC	103- 35
F107	FTC	103- 93
F108	FTC	103- 94
F109	FTC	103- 95
F110	FTC	103- 96
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F114	FTC	103-100
F115	FTC	103- 36
F116	FTC	103- 37
F117	FTC	103- 38
F117A	FTC	103- 39
F118	FTC	103- 40
F118A	AMF	103- 41
F119	AMF	103- 42
F119A	AMF	103- 43
F120	AMF	103- 44
F120A	AMF	103- 45
F121	AMF	103-101
F121A	AMF	103-102
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F122A	AMF	103-104
F123	AMF	103-105
F123A	AMF	103-106
F124	AMF	103-107
F124A	AMF	103-108
FE100	TSC	none
Repl.by 2N3452 Cur.		
FE100A	TSC	none
Repl.by 2N3455 Cur.		
FE102	TSC	none
Repl.by 2N3453 Cur.		
FE102A	TSC	none
Repl.by 2N3456 Cur.		
FE104	TSC	none
Repl.by 2N3454 Cur.		
FE104A	TSC	none
Repl.by 2N3457 Cur.		
FE200	TSC	none
Repl.by 2N3066 Cur.		
FE202	TSC	none
Repl.by 2N3067 Cur.		
FE204	TSC	none
Repl.by 2N3068 Cur.		
FE250	TSC	122- 69
FE252	TSC	122- 70
FE254	TSC	122- 71
FE300	TSC	none
Repl.by 2N3069 Cur.		
FE302	TSC	none
Repl.by 2N3070 Cur.		
FE304	TSC	none
Repl.by 2N3071 Cur.		
FE350	TSC	122- 72
FE352	TSC	122- 73
FE354	TSC	122- 74
FE400	TSC	none
Repl.by 2N3436 Cur.		
FE400A	TSC	none
Repl.by 2N3458 Cur.		
FE402	TSC	none
Repl.by 2N3437 Cur.		
FE402A	TSC	none
Repl.by 2N3459 Cur.		
FE404	TSC	none
Repl.by 2N3438 Cur.		
FE404A	TSC	none
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FK918	SGAI	57- 2
FK2369A	SGAI	56-109
		121- 7
FK2484	SGAI	56- 95
FK2894	SGAI	47- 13
		121- 15
FK3014	SGAI	56-105
		119- 77
FK3299	SGAI	56- 97
		118- 93
FK3300	SGAI	56- 99
		119- 30
FK3502	SGAI	47- 9
		118- 13
FK3503	SGAI	47- 10
		118- 14
FK3962	SGAI	47- 5
FK3964	SGAI	47- 7
FM708	SGAI	65- 58
		120- 1
FM709	SGAI	64- 90
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FM720A	SGAI	67- 37
FM870	♦FSC	67- 43
	SGAI	
FM871	♦FSC	67- 44
	SGAI	
FM910	SGAI	67- 40
FM911	SGAI	67- 38
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FM1104	♦NSC	77- 71
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FM1105	♦NSC	77- 72
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FM1106	♦NSC	77- 73
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FM1107	♦NSC	77- 74
		124- 85
FM1108	♦NSC	77- 75
		124- 86
FM1109	♦NSC	77- 76
		124- 87
FM1110	♦NSC	77- 77
		124- 88
FM1111	♦NSC	77- 78
		124- 89
FM1200	♦NSC	77- 79
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FM1201	♦NSC	77- 80
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FM1202	♦NSC	77- 81
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FM1203	♦NSC	77- 82
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FM1204	♦NSC	77- 83
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FM1205	♦NSC	77- 84
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FM1210	♦NSC	77- 89
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FM2369	SGAI	64- 70
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FM2894	SGAI	48- 83
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FN1034	RTN	73- 85
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FP4340	♦SIX	73- 87
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FPT100	♦FSC	126- 63
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Repl.by 2N2060 Cur.		
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
△-Registered with JEDEC by this manufacturer

Obs-In this book

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Repl.by BFW36 Cur.		
FT023	LTTF	62 - 89
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FT026	LTTF	63 - 1
FT027	LTTF	96 -100
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Repl.by 2N1565 Cur.		
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FT052	LTTF	68 - 7
FT053	LTTF	68 - 10
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Repl.by 2N2483 Cur.		
FT2484	FSC	none
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Repl.by 2N1978 Cur.		
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FV914	SGAI	56 -106
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FV2484	SGAI	56 - 96
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GET892	MULB	36 - 81
GET895	MULB	36 - 86
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GI3705	♦GIC	63 - 21
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GM656A	TIIB	32 - 43
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GME0404-1	GME	49 - 65
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GME1002	GME	61 - 80
GME2001	GME	61 - 43
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GME4001	GME	60 -100
GME4002	GME	61 - 8
GME4003	GME	61 - 9
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GME6002	GME	66 - 30
GME6003	GME	66 - 1
GME9001	GME	61 - 96
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GME9002	GME	61 - 97
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GME9021	GME	61 - 81
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GMO378	TIIB	32 - 25
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GS102	♦GSI	126 - 66
GS170	♦GSI	126 - 67
GS172	♦GSI	126 - 68
GS300	♦GSI	126 - 69
GS302	♦GSI	126 - 70
GS370	♦GSI	126 - 71
GS372	♦GSI	126 - 72
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GS601	GSI	126 - 74
GS611	GSI	126 - 75
GS614	♦GSI	126 - 76
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GT34N	♦GIC	38 - 11
GT35	GIC	none
GTC	STI	
Repl.by 2N35 Cur.		
GT66	ΔGTC	none
Repl.by 2N318 Obs.		
GT74	♦GIC	38 - 12
GT81	♦GIC	38 - 13
GT82	GIC	38 - 14
GT109	♦GIC	none
Repl.by 2N109 Cur.		
GT122	♦GIC	38 - 69
GT123	GIC	38 -104
		114 -101
GT167	GIC	45 - 44
GT222	GIC	38 - 15
GT229	GIC	45 - 19
GT758	GIC	35 - 3
GT759R	GTC	none
Repl.by GT1604 Cur.		
GT760R	GTC	none
Repl.by GT1605 Cur.		
GT761R	GTC	none
Repl.by GT1606 Cur.		
GT762R	GTC	none
Repl.by GT1607 Cur.		
GT792	GIC	44 - 87
GT792R	GTC	none
Repl.by GT1609 Cur.		
GT904	GIC	45 - 41
GT948	GIC	45 - 42
GT948R	GTC	none
Repl.by GT1608 Cur.		
GT949	GIC	45 - 27
GT1200	GTC	none
Repl.by 2N1310 Cur.		
GT1604	GIC	34 - 70
GT1605	GIC	34 - 75
GT1606	GIC	34 - 80
GT1607	GIC	35 - 64
GT1608	GIC	45 - 7
GT1609	GIC	45 - 8
GT1624	GTC	none
Repl.by 2N1672 Cur.		
GT1644	GIC	47 - 58
GT1658	GIC	none
Repl.by 2N1605 Cur.		
GT1665	GTC	none
Repl.by 2N1670 Cur.		
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GTA3	ROSG	27 - 70
		126 -105
GTE1	ROSG	37 - 14
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GTL1	ROSG	80 - 15
GTL3	ROSG	79 - 76
GTSMPA	GIC	none
Repl.by 2N529 Cur.		
GTSMPB	GIC	none
Repl.by 2N530 Cur.		
GTSMPC	GIC	none
Repl.by 2N531 Cur.		
GTSMPD	GIC	none
Repl.by 2N532 Cur.		
GTSMPE	GIC	none
Repl.by 2N533 Cur.		
GTV	ROSG	37 - 16
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H4A	MIN	78 - 76
H5	HON	81 - 4
H5B2N3	HON	80 -107
H6	HON	81 - 5
H7	HON	81 - 6
H10	HON	85 - 95
H12	HON	none
Repl.by 2N1157 Cur.		
H12A	HON	none
Repl.by 2N1157A Cur.		
H45	MIN	81 - 7
H71E	HON	none
Repl.by 2N1658 Cur.		
H200E	MIN	84 - 47
H200EA	HON	none
Repl.by 3N45 Cur.		
H200EB	HON	none
Repl.by 3N46 Cur.		
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HSC4392	HSC	76 - 68
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HSC4393	HSC	76 - 69
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HSC4416A	HSC	76 - 71
HSC5163	HSC	76 - 72
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HSC5485	HSC	76 - 80
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HSC5640	HSC	76 - 84
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HT401	EMLS	62 - 92
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HVT900	MSC	62 - 82
HVT1000	MSC	62 - 83
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J461	TII	54 - 98
J462	TII	54 - 99
J463	TII	54 -100
J464	TII	54 -101
J465	TII	54 -102
J466	TII	54 -103
J503	TII	none
Repl.by 2N1586 Cur.		
J504	TII	none
Repl.by 2N1587 Cur.		
J505	TII	none
Repl.by 2N1588 Cur.		
J506	TII	none
Repl.by 2N1589 Cur.		
J507	TII	none
Repl.by 2N1590 Cur.		
J508	TII	none
Repl.by 2N1591 Cur.		
J509	TII	none
Repl.by 2N1592 Cur.		
J510	TII	none
Repl.by 2N1593 Cur.		
J511	TII	none
Repl.by 2N1594 Cur.		
J581	TII	70 - 52
J582	TII	70 - 53
J583	TII	70 - 54
J584	TII	70 - 55
J585	TII	70 - 56
J586	TII	70 - 57
J587	TII	70 - 58
J588	TII	70 - 59
J589	TII	70 - 60
J594	TII	70 - 61
J595	TII	70 - 62
J596	TII	70 - 63
J623	TII	55 - 9
J624	TII	55 - 10
J625	TII	55 - 11
J626	TII	55 - 14
J627	TII	55 - 15
J628	TII	55 - 16
J629	TII	55 - 17
J630	TII	55 - 18
J631	TII	55 - 19
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K2	NECJ	75 - 31
K3	NECJ	75 - 32
K1001	♦KMC	75 - 57
K1002	♦KMC	75 - 58
K1003	♦KMC	75 - 59
K1004	♦KMC	75 - 60
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Repl.by 2N2857 Cur.		
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K5010	♦KMC	56 - 79
K5011	♦KMC	56 - 78
K5202	♦KMC	54 - 67
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KF2001	STC	43 - 26
KF2002	STC	43 - 27
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KGS1001	STC	41 - 47
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KGS1003	STC	41 - 67
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

1. TYPE No. CROSS INDEX

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KJ2003	STC	80- 70
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KL8011	♦STC	81- 66
KL8012	♦STC	81- 67
KL8013	♦STC	81- 68
KL8503	♦STC	80- 16
KL8504	♦STC	80- 17
KL8505	♦STC	80- 18
KL8506	♦STC	80- 19
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KM7001	STC	80- 72
KM7002	STC	80- 73
KM7007	STC	79- 86
KM7008	STC	79- 87
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KM7010	STC	79- 89
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KM7012	STC	80- 93
KM7013	STC	80- 94
KM7014	STC	80- 95
KM7015	STC	80- 96
KM7016	STC	80- 97
KM7017	STC	80- 98
KR6003	STC	80- 20
KR6004	STC	80- 21
KR6005	STC	80- 22
KR6006	STC	80- 23
KR6500	STC	81- 69
KR6501	STC	81- 70
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L7	NECJ	56- 19
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L20	TII	none
Repl.by 2N2865 Cur.		
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L20C	SHEJ	109- 97
L20D	SHEJ	109- 98
L30A	SHEJ	109- 99
L30B	SHEJ	109-100
L30C	SHEJ	109-101
L30D	SHEJ	109-102
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Repl.by 2N223 Cur.		
L5022A	PHIL	none
Repl.by 2N226 Cur.		
L5025A	PHIL	none
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LT5055	STC	81- 76
LT5056	STC	81- 77
LT5057	STC	81- 78
LT5058	STC	81- 79
LT5059	STC	81- 80
LT5060	STC	81- 81
LT5061	STC	81- 82
LT5062	STC	81- 83
LT5063	STC	81- 84
LT5064	STC	81- 85
LT5065	STC	81- 86
LT5066	STC	81- 87
LT5067	STC	81- 88
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LT5069	STC	81- 90
LT5070	STC	81- 91
LT5071	STC	81- 92
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LT5073	STC	81- 94
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LT5077	STC	81- 98
LT5078	STC	81- 99
LT5079	STC	81-100
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LT5092	STC	83- 14
LT5093	STC	83- 15
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LT5099	STC	83- 21
LT5100	STC	83- 22
LT5101	STC	83- 23
LT5102	STC	83- 24
LT5103	STC	83- 25
LT5104	STC	83- 26
LT5105	STC	83- 27
LT5106	STC	83- 28
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LT5118	STC	83- 40
LT5119	STC	83- 41
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M6	NECJ	46-100
M7	NECJ	46-101
M10A	SHEJ	107- 53
M10B	SHEJ	107- 54
M10C	SHEJ	107- 55
M10D	SHEJ	107- 56
M12H	MATJ	none
Repl.by 2SA308 Obs.		
M14H	MATJ	none
Repl.by 2SA309 Obs.		
M15H	MATJ	none
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M8108A	TOSJ	none
Repl.by 2SC109 Cur.		
M8108B	TOSJ	none
Repl.by 2SC109 Cur.		
M8124	TOSJ	30-107
M8128	TOSJ	none
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MD1F3459	DIC	76- 29
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MD1F4392	DIC	77- 92
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MD982	♦MOTA	125- 8
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MD1121F	♦MOTA	125- 11
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Repl.by 2N3287 Cur.		
MF1162	MOTA	none
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MF1163	MOTA	none
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MF1164	MOTA	none
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MHM2014	♦SOD	128-102
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MHM2017	♦SOD	128-105
MHM2101	♦SOD	128-106
MHM2111	♦SOD	128-107
MHM2112	♦SOD	128-108
MHM2113	♦SOD	128-109
MHM2114	♦SOD	128-110
MHM2115	♦SOD	129- 1
MHM2116	♦SOD	129- 2
MHM2117	♦SOD	129- 3
MHM2201	♦SOD	129- 4
MHM2211	♦SOD	129- 5
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MHT1809	♦SOD	86- 19
MHT1810	♦SOD	86- 20
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MHT1903	MIN	85-107
MHT1904	MIN	85-108
MHT1908	♦SOD	85-109
MHT1909	♦SOD	86- 1
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MHT2002	MIN	86- 3
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MHT2009	♦SOD	86- 7
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MHT2111	♦SOD	85- 85
MHT2112	♦SOD	85- 86
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MHT2205	♦SOD	85- 96
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MHT4401	MIN	92- 62
MHT4402	MIN	92- 63
MHT4411	MIN	92- 64
MHT4412	MIN	92- 65
MHT4413	MIN	92- 66
MHT4414	MIN	92- 67
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MHT4416	MIN	92- 69
MHT4417	MIN	92- 70
MHT4418	MIN	92- 71
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MHT4511	MIN	95- 61
MHT4512	MIN	95- 62
MHT4513	MIN	95- 63
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK Obs-In this book
△-Registered with JEDEC by this manufacturer

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MHT5503	♦SOD	93 - 91
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MHT5903	♦SOD	98 -109
MHT5904	♦SOD	98 -110
MHT5905	♦SOD	99 - 1
MHT5906	♦SOD	99 - 2
MHT5907	♦SOD	99 - 3
MHT5908	♦SOD	99 - 4
MHT5909	♦SOD	99 - 5
MHT5910	♦SOD	99 - 6
MHT5911	♦SOD	99 - 7
MHT5912	♦SOD	99 - 8
MHT5913	♦SOD	99 - 9
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MHT6315	♦SOD	102 - 6
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MHT6409	♦SOD	102 - 9
MHT6410	♦SOD	102 - 10
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MHT7403	♦SOD	95 - 11
MHT7411	♦SOD	95 - 12
MHT7412	♦SOD	95 - 13
MHT7413	♦SOD	95 - 14
MHT7414	♦SOD	95 - 15
MHT7415	♦SOD	95 - 16
MHT7416	♦SOD	95 - 17
MHT7417	♦SOD	95 - 18
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MHT7519	SOD	100 - 6
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MM487	MOTA	none
Repl.by 2N2218 Cur.		
MM488	MOTA	none
Repl.by 2N2219 Cur.		
MM511	MOTA	none
Repl.by 2N2220 Cur.		
MM512	MOTA	none
Repl.by 2N2221 Cur.		
MM513	MOTA	none
Repl.by 2N2222 Cur.		
MM709	MOTA	68 - 11
MM719	MOTA	none
Repl.by 2N2951 Cur.		
MM799	MOTA	none
Repl.by 2N2948 Cur.		
MM800	MOTA	none
Repl.by 2N2947 Cur.		
MM801	MOTA	none
Repl.by 2N2950 Cur.		
MM1008	MOTA	none
Repl.by 2N3444 Cur.		
MM1151	MOTA	none
Repl.by 2N3279 Cur.		
MM1152	MOTA	none
Repl.by 2N3280 Cur.		
MM1153	MOTA	none
Repl.by 2N3281 Cur.		
MM1154	MOTA	none
Repl.by 2N3282 Cur.		
MM1161	MOTA	none
Repl.by 2N3287 Cur.		
MM1162	MOTA	none
Repl.by 2N3288 Cur.		
MM1163	MOTA	none
Repl.by 2N3289 Cur.		
MM1164	MOTA	none
Repl.by 2N3290 Cur.		
MM1461	MOTA	none
Repl.by 2N3506 Cur.		
MM1462	MOTA	none
Repl.by 2N3507 Cur.		
MM1510	♦MOTA	none
Repl.by 2N5851 Cur.		
MM1511	♦MOTA	none
Repl.by 2N5852 Cur.		
MM1549	♦MOTA	none
Repl.by 2N5635 Cur.		
MM1550	♦MOTA	none
Repl.by 2N5636 Cur.		
MM1551	♦MOTA	none
Repl.by 2N5637 Cur.		
MM1552	♦MOTA	105 - 17
MM1557	♦MOTA	none
Repl.by 2N5641 Cur.		
MM1558	♦MOTA	none
Repl.by 2N5642 Cur.		
MM1559	♦MOTA	none
Repl.by 2N5643 Cur.		
MM1601	♦MOTA	none
Repl.by 2N5589 Cur.		
MM1602	♦MOTA	none
Repl.by 2N5590 Cur.		
MM1603	MOTA	none
Repl.by 2N5591 Cur.		
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MM1620	♦MOTA	105 - 27
MM1736	MOTA	none
Repl.by 2N3634 Cur.		
MM1737	MOTA	none
Repl.by 2N3635 Cur.		
MM1738	MOTA	none
Repl.by 2N3636 Cur.		
MM1739	MOTA	none
Repl.by 2N3637 Cur.		
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MM2090	MOTA	none
Repl.by 3N124 Cur.		
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Repl.by 3N125 Cur.		
MM2092	MOTA	none
Repl.by 3N126 Cur.		
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MM2261	♦MOTA	93 - 7
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MM2262	♦MOTA	93 - 8
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MM2263	♦MOTA	93 - 9
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MM4023	♦MOTA	89 - 1
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MM4547	♦MOTA	88 - 59
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MM4645	♦MOTA	88 - 20
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MM4647	♦MOTA	88 - 22
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MM8002	♦MOTA	none
Repl.by 2N5943 Cur.		
MM8012	♦MOTA	none
Repl.by 2N5947 Cur.		
MN13A	MOTA	43 - 17
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MN19	MOTA	none
Repl.by 2N505 Cur.		
MN21	MOTA	84 - 48
MN24	MOTA	none
Repl.by 2N350 Cur.		
MN25	MOTA	none
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MN26	MOTA	none
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MN28	MOTA	84 - 49
MN29	MOTA	84 - 50
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MN49	MOTA	none
Repl.by 2N618 Cur..		
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MP1530A	STC	84 -103
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MP1531	STC	84 -104
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MP1531A	STC	84 -105
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MP1532	STC	84 -106
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MP1532A	STC	84 -107
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MP1533	STC	84 -108
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MP1534	STC	84 -109
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MP1534A	STC	84 -110
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MP1535	STC	85 - 1
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MP1535A	STC	85 - 2
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MP1536	STC	85 - 3
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MP1536A	STC	85 - 4
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MP1537	STC	85 - 5
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MP1537A	STC	85 - 6
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MP1538	STC	85 - 7
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MP1549	STC	85 - 8
MP1549A	STC	85 - 9
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MP1550	STC	85 - 10
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MP1555	STC	85 - 20
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MP2143A	MOTA	84 - 1
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MP2144A	MOTA	84 - 3
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MP8233	MEHK	94 - 14
MP8234	MEHK	94 - 15
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MPF1000	♦MOTA	77 - 94
MPS2894	MOTA	48 - 84
		120 - 97
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MPS6553	MOTA	65 - 24
MPS6554	MOTA	65 - 25
MPS6555	MOTA	65 - 26
MPS6580	MOTA	48 - 96
MPU231	♦MOTA	none
Repl.by 2N6116 Cur.		
MPU232	♦MOTA	none
Repl.by 2N6117 Cur.		
MPU233	♦MOTA	none
Repl.by 2N6118 Cur.		
MRD100	♦MOTA	52 - 27
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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MST70S	♦STC	71-23
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NKT42	NTLB	30-85
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NKT53	NTLB	31-36
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NKT73	NTLB	31-32
NKT74	NTLB	31-41
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NKT103	NTLB	31-48
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NKT105	NTLB	31-74
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NKT106	NTLB	31-49
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NKT109	NTLB	31-50
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NKT121	NTLB	31-95
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NKT352	NTLB	43-65
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NKT362	NTLB	43-67
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NKT618	NTLB	35-71
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Repl.by 2N2223 Cur.		
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NPT800	NPC	none
Repl.by 2N3399 Cur.		
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NS066	NSC	55-30
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NS384	NSC	64-30
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NS438	NSC	69-5
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NS476	NAS	67-64
NS477	NAS	67-65
NS478	NAS	67-66
NS479	NAS	67-67
NS480	NAS	67-68
NS661	♦NSC	50-19
NS662	♦NSC	50-20
NS663	♦NSC	50-21
NS664	♦NSC	50-22
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NS1356	NSC	71-106
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NS3110	NSC	127-96
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OC5L	VANN	36-33
OC5LP	VANN	36-34
OC5LR	VANN	36-35
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OC330	INTG	28-67
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OC331	BRUB	27-86
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OC340	INTG	28-69
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OC341	BRUB	27-87
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OC342	BRUB	27-88
	INTG	
OC343	BRUB	27-92
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OC350	INTG	28-70
OC351	BRUB	27-94
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Cur-In current D.A.T.A.BOOK Obs-In this book

Δ-Registered with JEDEC by this manufacturer

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OC445K	BRUB	47 - 75
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OC612	ALGG	27 - 97
OC613	ALGG	27 - 98
OC614	ALGG	28 - 4
OC615	ALGG	28 - 12
OC622	ALGG	27 - 80
OC623	ALGG	27 - 81
OC624	ALGG	27 - 82
OC700	BRUB	48 -102
OC700A	BRUB	48 -103
OC700B	BRUB	48 -107
OC701	BRUB	48 -101
OC702	BRUB	48 -104
OC702A	BRUB	48 -105
OC702B	BRUB	48 -106
OC703	BRUB	48 - 99
OC703A	BRUB	48 -100
OC704	BRUB	48 -108
OC740	BRUB	49 - 7
		127 -105
OC740M	BRUB	125 - 68
OC740Q	BRUB	125 - 69
OC742	BRUB	48 - 98
		127 -106
OC800	BRUB	122 - 83
OC975	ELMA	34 - 53
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OD603/50	ALGG	79 - 4
OD650	AEG	84 - 52
OD650B	AEG	84 - 53
OD651	AEG	84 - 54
OD651A	AEG	84 - 55
OD652	AEG	none
Repl.by ADY18	Cur.	
OS13	TOSJ	126 - 85
OS15	TOSJ	126 - 86
OS16	TOSJ	126 - 87
OS17	TOSJ	126 - 88
P346	SGAI	64 - 71
		120 - 65
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P1004	TSC	73 - 94
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P1005	TSC	122 - 86
P1027	TSC	73 - 95
P1028	TSC	73 - 96
P1029	TSC	73 - 97
P1069E	♦TSC	73 - 98
PA1000	TSC	49 - 34
PA1001	TSC	49 - 37
PADT20	APX	none
Repl.by 2N2089	Cur.	
PADT21	APX	none
Repl.by 2N2090	Cur.	
PADT22	APX	none
Repl.by 2N2091	Cur.	
PADT23	APX	none
Repl.by 2N2093	Obs.	
PADT24	APX	none
Repl.by 2N2092	Cur.	
PADT25	APX	none
Repl.by 2N2091	Cur.	
PADT26	APX	none
Repl.by 2N2089	Cur.	
PADT27	APX	none
Repl.by 2N2092	Cur.	
PADT28	APX	none
Repl.by 2N2494	Cur.	
PADT29	APX	35 - 75
PADT30	AMP	35 - 89
PADT31	APX	none
Repl.by 2N2084	Cur.	
PADT35	APX	none
Repl.by 2N2207	Cur.	
PADT40	APX	34 - 88
PADT50	♦APX	79 - 51
PADT51	APX	122 - 11
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PEP5	AEIL	64 - 32
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PEP6	AEIL	64 - 33
		120 - 5
PEP7	AEIL	64 - 34
		120 - 6
PEP8	AEIL	64 - 35
		120 - 7
PEP9	AEIL	63 - 93
PET0404	PHIL	49 - 55
PET0404-1	PHIL	49 - 72
PET0404-2	PHIL	49 - 73
PET1001	♦PHIL	66 - 32
PET1002	♦PHIL	66 - 33
PET1075	♦PHIL	66 - 2
PET1075A	♦PHIL	66 - 3
PET2001	♦PHIL	66 - 34
PET2002	♦PHIL	66 - 35
PET3001	♦PHIL	62 - 4
PET3002	♦PHIL	62 - 13
PET3702	♦PHIL	49 - 38
PET3703	♦PHIL	49 - 39
PET3704	♦PHIL	65 -100
PET3705	♦PHIL	65 -101
PET3706	♦PHIL	65 -102
PET3903	PHIL	66 - 56
PET3904	PHIL	66 - 81
PET3905	PHIL	49 - 74
PET3906	PHIL	49 - 79
PET4001	♦PHIL	65 - 81
PET4002	♦PHIL	65 - 82
PET4003	♦PHIL	65 - 83
PET4058	♦PHIL	49 - 25
PET4059	♦PHIL	49 - 26
PET4060	♦PHIL	49 - 27
PET4061	♦PHIL	49 - 28
PET4062	♦PHIL	49 - 29
PET4123	PHIL	66 - 57
PET4124	PHIL	66 - 82
PET4125	PHIL	49 - 75
PET4126	PHIL	49 - 80
PET6001	♦PHIL	66 -104
PET6002	♦PHIL	67 - 10
PET6003	PHIL	66 - 4
PET8000	♦PHIL	65 - 74
PET8001	♦PHIL	65 - 75
PET8002	♦PHIL	65 - 76
PET8003	♦PHIL	65 - 77
PET8004	♦PHIL	65 - 78
PET8005	♦PHIL	59 -107
PET8005A	♦PHIL	59 -108
PET8006	♦PHIL	59 -109
PET8006A	♦PHIL	59 -110
PET8007	♦PHIL	60 - 1
PET8007A	♦PHIL	60 - 2
PET8101	♦PHIL	62 - 14
PET8200	♦PHIL	66 - 36
PET8201	♦PHIL	66 - 37
PET8202	♦PHIL	66 - 38
PET8203	♦PHIL	66 - 39
PET8204	♦PHIL	66 - 40
PET8250	♦PHIL	64 - 72
PET8251	♦PHIL	64 - 81
PET8300	♦PHIL	49 - 40
PET8301	♦PHIL	49 - 41
PET8302	♦PHIL	49 - 42
PET8303	♦PHIL	49 - 43
PET8304	♦PHIL	49 - 44
PET8350	♦PHIL	42 - 27
PET8351	♦PHIL	42 - 29
PET8352	♦PHIL	42 - 28
PET8353	♦PHIL	42 - 30
PET9001	♦PHIL	66 -105
		120 - 56
PET9001A	♦PHIL	66 -106
		120 - 66
PET9002	♦PHIL	66 -107
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PET9002A	♦PHIL	66 -108
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PET9003	PHIL	119 - 96
PET9004	PHIL	120 - 15
PET9021	♦PHIL	66 - 83
		119 - 97
PET9022	♦PHIL	66 - 84
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PFN3069	♦DIC	77 - 64
		126 - 92
PFN3458	♦DIC	77 - 65
		126 - 93
PH244N	♦AKER	76 - 34
		126 - 94
PMT011	PSI	52 - 94
PMT012	PSI	52 - 95
PMT013	PSI	52 - 96
PMT014	PSI	52 - 97
PMT015	PSI	52 - 98
PMT016	PSI	52 - 99
PMT018	TRW	52 -100
PMT019	TRW	52 -101
PMT020	TRW	52 -102
PMT021	TRW	53 -108
PMT022	TRW	53 -109
PMT023	TRW	54 - 8
		121 - 40
PMT024	TRW	52 -103
PMT025	TRW	53 - 70
PMT111	TRW	52 -104
PMT112	TRW	52 -105
PMT113	TRW	52 -106
PMT114	TRW	52 -107
PMT115	TRW	60 - 36
PMT116	TRW	52 -108
PMT117	TRW	66 -109
PMT118	TRW	52 -109
PMT119	TRW	52 -110
PMT120	TRW	53 - 1
PMT121	TRW	53 -110
PMT122	TRW	54 - 1
PMT123	TRW	62 - 9
		121 - 41
PMT124	TRW	60 - 37
PMT125	TRW	53 - 71
PMT211	TRW	71 - 90
PMT212	TRW	71 - 91
PMT213	TRW	70 - 9
PMT214	TRW	70 - 10
PMT215	TRW	70 - 20
PMT216	TRW	54 - 9
		121 - 42
PMT217	TRW	66 -110
PMT218	TRW	61 - 32
PMT219	TRW	61 - 33
PMT220	TRW	60 - 71
PMT221	PSI	61 -100
PMT222	TRW	54 - 2
PMT223	TRW	62 - 10
		121 - 43
PMT224	TRW	60 - 38
PMT225	TRW	53 - 72
PMT1767M	TRW	53 - 94
PMT1767P	TRW	53 - 95
PMT1767T	TRW	53 - 96
PMT1787M	PSI	61 - 48
PMT1787P	PSI	53 - 97
PMT1787T	PSI	61 - 49
PPT720	PSI	66 - 58
PT13	♦STL	129 - 84
PT23	♦STL	129 - 85
PT53	♦STL	129 - 86
PT200	TRW	none
Repl.by 2N4038	Cur.	
PT201	TRW	none
Repl.by 2N4039	Cur.	
PT320	TRW	122 - 87
PT515	TRW	none
Repl.by 2N1339	Cur.	
PT516	TRW	none
Repl.by 2N1340	Cur.	
PT517	TRW	none
Repl.by 2N1341	Cur.	
PT518	TRW	none
Repl.by 2N1335	Cur.	
PT519	TRW	none
Repl.by 2N1336	Cur.	
PT520	TRW	none
Repl.by 2N1337	Cur.	
PT522	TRW	none
Repl.by 2N1505	Cur.	
PT523	TRW	none
Repl.by 2N1506	Cur.	
PT530	PSI	none
Repl.by 2N1709	Cur.	
PT530-1	TRW	none
Repl.by 2N1710	Cur.	
PT530A	PSI	none
Repl.by 2N2783	Cur.	
PT531	PSI	none
Repl.by 2N2874	Cur.	
PT613	PSI	none
Repl.by 2N2782	Cur.	
PT657	TRW	none
Repl.by 2N2887	Cur.	
PT692	PSI	none
Repl.by 2N2781	Cur.	
PT701	♦PTI	none
Repl.by 2N5927	Cur.	
PT703	TRW	65 - 73
PT706	PSI	none
Repl.by 2N919	Cur.	
PT706-1	PSI	none
Repl.by 2N920	Cur.	
PT706A	TRW	none
Repl.by 2N921	Cur.	
PT706A-1	TRW	none
Repl.by 2N922	Cur.	
PT709	TRW	none
Repl.by 2N988	Cur.	
PT709-1	TRW	none
Repl.by 2N989	Cur.	
PT720	TRW	none
Repl.by 2N2656	Cur.	
PT801	TRW	none
Repl.by 2N1409	Cur.	
PT802	TRW	none
Repl.by 2N1410	Cur.	
PT822	PSI	none
Repl.by 2N1837	Cur.	
PT850	♦TRW	72 - 44
PT850A	♦TRW	72 - 45
PT851	PSI	none
Repl.by 2N1838	Cur.	
PT852	PSI	none
Repl.by 2N1839	Cur.	
PT853	PSI	none
Repl.by 2N1840	Cur.	
PT886	♦TRW	69 - 71
PT887	TRW	69 - 72
PT888	TRW	69 - 73
PT896	♦TRW	90 - 36
PT897	TRW	69 - 74
PT898	TRW	69 - 54
PT900	TRW	108 - 79
PT900-1	PSI	108 - 80
PT901	PSI	none
Repl.by 2N1899	Cur.	
PT901-1	TRW	none
Repl.by 2N1902	Cur.	
PT902	TRW	none
Repl.by 2N1900	Cur.	
PT902-1	TRW	none
Repl.by 2N1903	Cur.	
PT903	TRW	none
Repl.by 2N1901	Cur.	
PT903-1	TRW	none
Repl.by 2N1904	Cur.	
PT1835	♦TRW	70 - 29
PT1836	♦TRW	68 - 4
PT1837	♦TRW	68 - 5
PT2523	♦TRW	72 - 23
PT2524	♦TRW	72 - 24
PT2525	♦TRW	71 - 38
PT2525A	TRW	93 - 42
PT2540	♦TRW	72 - 20
PT2575	♦TRW	71 - 39
PT2622	TRW	97 - 90
PT2634	TRW	98 - 48
PT2690	TRW	97 - 91
PT2760	PSI	66 - 59
PT3473	♦TRW	70 - 4
PT3501	TRW	93 - 16
PT3690	TRW	97 - 92
PT3691	TRW	90 - 37
PT3760	♦TRW	67 - 11
PT4800	TRW	71 - 62
PT4830	TRW	72 - 6
PT5690	TRW	90 - 38
PT5692	TRW	none
Repl.by 2N4128	Cur.	
PT5694	TRW	none
Repl.by 2N4127	Cur.	
PT6905	TRW	108 - 81
		117 - 98
PT6905A	♦TRW	108 - 82
		117 -103
PT6905B	♦TRW	108 - 83
		117 -104
PT6905C	♦TRW	108 - 84
		117 -105
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PT-L3	♦STL	129 - 88
PT-M3	♦STL	129 - 89
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Q3	NECJ	54 - 16
Q4	NECJ	54 - 17
Q5	NECJ	54 - 18
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		125 - 70
QD100-78	♦QDC	68 - 12
		125 - 71
QD101-71	♦QDC	64 - 73
		125 - 72
QD101-78	♦QDC	68 - 18
		125 - 73
QD102-71	♦QDC	64 - 74
		125 - 74
QD102-78	♦QDC	68 - 19
		125 - 75
QD103-71	♦QDC	64 - 75
		125 - 76
QD103-78	♦QDC	68 - 20
		125 - 77
QD104-71	♦QDC	64 - 76
		125 - 78
QD104-78	♦QDC	68 - 21
		125 - 79
QD150-71	♦QDC	69 - 34
QD150-78	♦QDC	71 - 4
QD200-71	♦QDC	63 - 23
QD200-78	♦QDC	63 - 24
QD201-71	♦QDC	63 - 25
QD201-78	♦QDC	63 - 26
QD203-71	♦QDC	63 - 27
QD203-78	♦QDC	63 - 28
QD204-71	♦QDC	63 - 29
QD204-78	♦QDC	63 - 30
QD400-71	♦QDC	48 - 78
		125 - 80
QD400-78	♦QDC	50 - 3
		125 - 81
QD401-71	♦QDC	48 - 79
		125 - 82
QD401-78	♦QDC	50 - 4
		125 - 83
QD402-71	♦QDC	48 - 86
		125 - 84
QD402-78	♦QDC	50 - 5
		125 - 85
QD403-71	♦QDC	48 - 87
		125 - 86
QD403-78	♦QDC	50 - 6
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R3	RAU	27 - 95
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RE3754	SOD	95 - 70
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RE3755	SOD	95 - 71
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RE3756	SOD	97 - 84
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RE3757	SOD	97 - 98
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RE3778	SOD	95 - 72
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RE3779	SOD	95 - 73
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RE3780	SOD	97 - 85
	USC	
RE3781	SOD	97 - 99
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RE3797	SOD	100 - 41
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RE3798	SOD	100 - 42
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RE3800	SOD	102 - 94
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RE3805	SOD	93 - 17
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RE3842	SOD	88 - 39
	USC	
RE3843	SOD	88 - 40
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RE3844	SOD	88 - 90
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RE3845	SOD	88 - 95
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RH120	♦USC	57 - 61
		112 - 20
RH3761	SOD	70 - 48
	USC	
RH3762	SOD	93 - 18
	USC	
RH3778	SOD	95 - 74
	USC	
RH3787	SOD	95 - 75
	USC	
RM3001	RTN	129 - 25
RM3002	RTN	129 - 26
RM3010	RTN	129 - 27
RM3036	RTN	77 -107
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RM8007D	RTN	74 - 35
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RN1030	RTN	73 - 47
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RN3020	RTN	73 - 49
RN3020R	RTN	73 - 50
RN3030	RTN	73 - 51
RN3030R	RTN	73 - 52
RT10	SIX	129 - 81
RT20	SIX	129 - 82
RT150A	RTCF	78 - 31
RT150B	RTCF	78 - 32
RT409E	RHE	67 - 94
	RTN	
RT482	RHE	70 - 11
	RTN	
RT483	RHE	70 - 12
	RTN	
RT484	RHE	70 - 13
	RTN	
RT497M	RTN	none
Repl.by 2N2310	Cur.	
RT498M	RTN	none
Repl.by 2N2311	Cur.	
RT656M	RTN	none
Repl.by 2N2312	Cur.	
RT657M	RTN	none
Repl.by 2N2313	Cur.	
RT679M	RTN	none
Repl.by 2N697	Cur.	
RT696AM	RHE	67 - 95
	RTN	
RT696M	RTN	none
Repl.by 2N2314	Cur.	

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
RT697AM	RHE	67 - 96
	RTN	
RT697M	RTN	none
Repl.by 2N2315 Cur.		
RT698	RTN	52 - 7
RT698M	RHE	67-100
	RTN	
RT699AM	RTN	none
Repl.by 2N2316 Cur.		
RT699M	RTN	none
Repl.by 2N2316 Cur.		
RT717M	RTN	none
Repl.by 2N2314 Cur.		
RT718AM	RTN	none
Repl.by 2N2317 Cur.		
RT718M	RTN	none
Repl.by 2N2315 Cur.		
RT719M	RTN	67-101
		118 - 43
RT720M	RTN	none
Repl.by 2N2316 Cur.		
RT730M	RTN	65 - 46
		115 - 67
RT731M	RTN	65 - 47
		115 - 68
RT910M	RTN	65 - 50
RT929H	RTN	52 - 65
RT930H	♦RTN	52 - 66
RT1110	♦RTCF	122 - 12
RT1111	♦RTCF	122 - 13
RT1115	RTN	71 - 80
		117 - 90
RT1116	♦RTCF	71 - 81
	RTN	117 - 89
		122 - 14
RT1210	RTN	71 - 68
RT1252M	RTN	67 - 49
RT1253M	RTN	67 - 50
RT1409M	RTN	67 - 51
RT1410M	RTN	67 - 52
RT1420M	RTN	90 - 39
RT1613M	RTN	none
Repl.by 2N2317 Cur.		
RT1890M	RTN	71 - 76
RT1899	RTCF	none
Repl.by 2N1899 Cur.		
RT2459	RTN	49 - 88
		121 - 39
RT2460	RTN	49 - 89
RT2461	RTN	47 - 52
RT2462	RTN	48 - 91
		121 - 54
RT2463	RTN	47 - 53
RT3061	RTCF	90 - 40
RT3062	RTCF	90 - 41
RT3101	♦RTCF	62 - 26
RT3111	RTCF	90 - 42
RT3170	♦RTCF	62 - 27
RT3171	♦RTCF	70 - 49
RT3500	RTN	50 - 32
RT3501	RTN	125 - 90
RT4230	RTN	none
Repl.by 2N2309 Cur.		
RT5001	RHE	92 - 2
	RTN	
RT5002	RHE	92 - 3
	RTN	
RT5003	RHE	92 - 4
	RTN	
RT5004	RHE	92 - 5
	RTN	
RT5151	RHE	70 - 14
	RTN	
RT5152	RHE	70 - 15
	RTN	
RT5202	RTN	none
Repl.by 2N2008 Cur.		
RT5203	RHE	70 - 16
	RTN	
RT5204	RHE	70 - 17
	RTN	
RT5212	RHE	70 - 18
	RTN	
RT5230	RTN	none
Repl.by 2N2309 Cur.		
RT5401	RHE	70 - 69
	RTN	
RT5402	RHE	70 - 70
	RTN	
RT5403	RHE	70 - 71
	RTN	
RT5404	RHE	70 - 72
	RTN	
RT5411	RTN	70 - 65
RT5412	RTN	70 - 66
RT5413	RTN	70 - 67
RT5418	RTN	none
Repl.by 2N698 Cur.		
RT5804	RHE	69 - 55
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RT7007E	RHE	68 - 56
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S2	NECJ	46-108
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S501	SSD	46 - 72
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S708	SOD	95 - 76
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S715	SOD	94 - 23
	♦USC	129 - 29
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S801	USC	97 - 54
S939	USC	97 - 55
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S1000	USC	97 - 56
S1050	SOD	98 - 49
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S2002	SOD	95 - 77
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S3006	SOD	92 - 76
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S3010	SOD	93 - 20
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S4002	♦SOD	104-106
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S6000	♦SOD	104-107
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S6002	♦SOD	104-109
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S6804	SGAI	70 - 46
S8000	♦SOD	104-110
S8001	♦SOD	105 - 1
S8002	♦SOD	105 - 2
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S15660	♦FSC	70 - 43
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SA52	PLSB	46 - 47
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SA54	PLSB	46 - 62
SA55	PLSB	46 - 63
SA56	PLSB	46 - 64
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SA496	PLSB	46 - 32
SA496A	PLSB	46 - 33
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SA538	SPR	46 - 36
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SA2712	♦TSC	63 - 70
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SA2713	♦TSC	63 - 71
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SA2714	♦TSC	63 - 72
		125 -100
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
△-Registered with JEDEC by this manufacturer

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		128- 13
SST610	SSE	129- 52
ST01	PLSB	64- 2
ST02	PLSB	66- 85
		119- 51
ST03	PLSB	66- 86
		119- 52
ST3	THCF	122- 89
ST04	PLSB	66- 87
		119- 53
ST05	PLSB	66- 88
		119- 54

TYPE No.	MFRS	Pg&Line
ST06	PLSB	65-103
ST9	TEC	none
Repl.by 2N1417 Cur.		
ST10	ROSG	none
	TEC	
Repl.by 2N470 Cur.		
ST11	TEC	none
Repl.by 2N473 Cur.		
ST12	TEC	none
Repl.by 2N478 Cur.		
ST13	TEC	none
Repl.by 2N476 Cur.		
ST14	TEC	none
Repl.by 2N541 Cur.		
ST15	TEC	57- 73
ST25A	NECJ	55- 51
ST25B	NECJ	55- 52
ST25C	NECJ	55- 53
ST29	TEC	none
Repl.by 2N1418 Cur.		
ST30	PLSB	none
	TEC	
Repl.by 2N471 Cur.		
ST31	PLSB	none
	TEC	
Repl.by 2N474 Cur.		
ST32	PLSB	none
	TEC	
Repl.by 2N479 Cur.		
ST33	PLSB	none
	TEC	
Repl.by 2N477 Cur.		
ST34	TEC	none
Repl.by 2N542 Cur.		
ST35	TEC	57- 74
ST40	PLSB	none
	TEC	
Repl.by 2N472 Cur.		
ST41	PLSB	none
	TEC	
Repl.by 2N475 Cur.		
ST42	PLSB	none
	TEC	
Repl.by 2N480 Cur.		
ST43	PLSB	66- 60
ST44	TEC	none
Repl.by 2N543 Cur.		
ST45	TEC	57- 75
ST50Ø	ROSG	64- 37
		127- 41
ST51	PLSB	63- 96
		119- 55
ST53	PLSB	64- 38
		119- 98
ST54	PLSB	62-103
		116- 85
ST55	PLSB	64- 39
		119- 56
ST56	PLSB	64- 40
		119- 57
ST57	PLSB	64- 41
		119- 58
ST58	PLSB	66- 89
		120- 44
ST59	PLSB	66- 90
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ST60	PLSB	67- 1
		120- 50
ST61	PLSB	67- 2
		120- 51
ST62	PLSB	67- 3
		120- 52
ST63	PLSB	54- 65
		119- 59
ST64	PLSB	66- 99
		120- 34
ST66	SAKJ	107- 11
		114- 25
ST70	PLSB	67- 26
ST71	PLSB	64- 93
ST72	PLSB	64- 94
ST80	PLSB	67- 4
		120- 53
ST82	PLSB	67- 21
		121- 2
ST106	SOI	86- 28
ST107	SOI	86- 29
ST108	SOI	86- 30
ST109	SOI	86- 31
ST110	SOI	86- 32
ST111	SOI	86- 33
ST112	SOI	86- 34
ST150	PLSB	69- 88
		117- 13
ST151	PLSB	69- 89
ST152	PLSB	69- 90
ST153	PLSB	69- 91
ST154	PLSB	69- 92
ST155	PLSB	69- 93
ST156	PLSB	69- 94
ST157	PLSB	69- 95
ST160	PLSB	69- 78
		116- 86
ST161	PLSB	69- 79
		116- 87
ST162	PLSB	69- 80
		116- 88
ST163	PLSB	69- 81
		116- 89
ST175	PLSB	70- 30
ST176	PLSB	70- 31
ST177	PLSB	70- 32
ST178	PLSB	69- 82
ST180	PLSB	70- 33

TYPE No.	MFRS	Pg&Line
ST181	PLSB	70- 34
ST182	PLSB	70- 35
ST185	PLSB	70- 36
ST186	PLSB	70- 37
ST187	PLSB	70- 38
ST250	PLSB	65- 79
ST251	PLSB	65- 84
ST400	TEC	none
Repl.by 2N1250 Cur.		
ST401	TEC	none
Repl.by 2N2032 Cur.		
ST402	TEC	100- 67
ST403	TEC	100- 68
ST410	TEC	none
Repl.by 2N1208 Cur.		
ST411	TEC	none
Repl.by 2N1209 Cur.		
ST414	TEC	none
Repl.by 2N1212 Cur.		
ST415	TEC	105- 8
ST440	TEC	103-109
ST450	TEC	103-110
ST501	PLSB	64- 5
		119- 42
ST502	PLSB	64- 6
		119- 43
ST503	PLSB	62- 62
ST504	PLSB	62- 63
ST610	SAKJ	107- 12
		114- 26
ST615	SAKJ	107- 13
		114- 27
ST721	ASMB	60- 83
	GECB	
ST722	ASMB	60- 86
	GECB	
ST723	ASMB	60- 88
	GECB	
ST1026	TEC	none
Repl.by 2N1247 Cur.		
ST1050	TEC	none
Repl.by 2N1248 Cur.		
ST1242	TEC	55- 25
ST1243	TEC	55- 44
ST1244	TEC	55- 45
ST1290	TEC	55- 46
ST1504	TEC	none
Repl.by 2N754 Cur.		
ST1505	TEC	none
Repl.by 2N755 Cur.		
ST1523	TEC	none
Repl.by 2N839 Cur.		
ST1524	TEC	none
Repl.by 2N840 Cur.		
ST1525	TEC	none
Repl.by 2N841 Cur.		
ST1527	TEC	none
Repl.by 2N842 Cur.		
ST1528	TEC	none
Repl.by 2N843 Cur.		
ST1543	TEC	52- 24
ST1607	TEC	62- 64
ST1633	TEC	62- 65
ST1694	TEC	54- 53
ST1700	TEC	62- 87
ST2110	TEC	59- 51
ST2120	TEC	59- 61
ST2130	TEC	59- 22
ST3030	TEC	53- 56
ST3031	TEC	52- 23
ST3042	TEC	52- 28
ST3043	TEC	52- 29
ST4044	TEC	none
Repl.by 2N1116 Cur.		
ST4045	TEC	none
Repl.by 2N1117 Cur.		
ST4080	TEC	none
Repl.by 2N1206 Cur.		
ST4081	TEC	none
Repl.by 2N1207 Cur.		
ST4150	TEC	none
Repl.by 2N1052 Cur.		
ST4201	TEC	none
Repl.by 2N2038 Cur.		
ST4202	TEC	none
Repl.by 2N2039 Cur.		
ST4203	TEC	none
Repl.by 2N2040 Cur.		
ST4204	TEC	none
Repl.by 2N2041 Cur.		
ST4341	TEC	72- 36
ST4402	TEC	95- 43
ST5060	TEC	94- 29
ST5061	TEC	94- 30
ST5610	TEC	128- 14
ST5611	TEC	128- 15
ST5612	TEC	128- 16
ST5613	TEC	128- 17
ST5614	TEC	128- 18
ST5641	TEC	128- 19
ST6008	TEC	none
Repl.by 2N728 Cur.		
ST6010	TEC	none
Repl.by 2N729 Cur.		
ST6110	TEC	64- 86
		121- 3
ST6120	TEC	64-108
		121- 56
ST6125	TEC	64-102
ST6130	TEC	67- 5
ST6510	TEC	91- 65
ST6511	TEC	91- 66
ST6512	TEC	91- 67
ST6573	TEC	71- 82

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Obs-In this book
△-Registered with JEDEC by this manufacturer

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

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ST6593	TEC	67 - 86
ST6594	TEC	67 - 87
ST6600	TEC	67 - 97
ST6601	TEC	71 - 99
ST7120	TEC	104 - 1
ST7130	TEC	104 - 2
ST7200	TEC	91 - 68
ST7400	TEC	108 - 86
ST7530	♦TEC	103 - 3
ST8014	TEC	50 - 94
ST8033	TEC	50-105
ST8034	TEC	50-106
ST8035	♦TEC	50 - 33
ST8036	♦TEC	50 - 34
ST8065	♦TEC	50-101
ST8181	TEC	50 - 56
ST8182	TEC	50 - 57
ST8183	TEC	51 - 7
ST8184	TEC	51 - 8
ST8190	♦TEC	50-102
ST8191	♦TEC	50-103
ST8229	♦TEC	50 - 68
ST8230	♦TEC	51 - 14
ST8500	♦TEC	50 - 95
ST8509	♦TEC	50-104
ST8700	TEC	48 - 33
ST8704	TEC	48 - 45
ST8705	TEC	48 - 46
ST8709	♦TEC	48 - 20
ST9001	TEC	88 - 67
ST30100	♦TEC	88 - 29
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ST61000	♦TEC	50 - 35
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ST70001	♦TEC	57-101
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ST71000	TEC	65 - 85
STC389	STC	105 - 20
STC1001	STC	102 - 20
STC1015	♦STC	109 - 65
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STC1015B	♦STC	109 - 67
STC1015C	♦STC	109 - 68
STC1015D	♦STC	109 - 69
STC1015E	STC	109 - 70
STC1016	♦STC	109 - 71
STC1016A	♦STC	109 - 72
STC1016B	♦STC	109 - 73
STC1016C	♦STC	109 - 74
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STC1036A	STC	103 - 7
STC1080	♦STC	103 - 51
STC1081	♦STC	103 - 52
STC1082	♦STC	103 - 53
STC1083	♦STC	103 - 54
STC1084	♦STC	103 - 55
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STC1094	♦STC	108-109
STC1101	STC	104 - 3
STC1102	STC	104 - 4
STC1103	STC	104 - 5
STC1104	STC	104 - 6
STC1105	STC	104 - 7
STC1105A	STC	104 - 8
STC1106	STC	104 - 9
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STC1312	STC	100 - 29
STC1313	STC	100 - 30
STC1314	STC	100 - 31
STC1331	STC	100 - 32
STC1332	STC	100 - 33
STC1336	♦STC	100 - 44
STC1400	♦STC	109 - 77
STC1500	STC	103 - 69
STC1550	♦STC	103 - 58
STC1551	♦STC	103 - 59
STC1552	♦STC	103 - 60
STC1553	♦STC	103 - 61
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Repl.by 2N2815 Cur.		
STC1727	STC	none
Repl.by 2N2819 Cur.		
STC1729	STC	none
Repl.by 2N2823 Cur.		
STC1730	STC	none
Repl.by 2N2816 Cur.		
STC1732	STC	none
Repl.by 2N2820 Cur.		
STC1734	STC	none
Repl.by 2N2824 Cur.		
STC1735	STC	none
Repl.by 2N2817 Cur.		
STC1737	STC	none
Repl.by 2N2821 Cur.		
STC1739	STC	none
Repl.by 2N2825 Cur.		
STC1750	STC	108 - 87
STC1751	STC	none
Repl.by 2N2818 Cur.		
STC1777	STC	none
Repl.by 2N2822 Cur.		
STC1800	♦STC	97 - 65
STC1850	♦STC	97 - 66
STC1860	♦STC	97 - 67
STC1861	♦STC	97 - 68
STC1862	♦STC	97 - 69
STC2100	STC	none
Repl.by 2N3149 Cur.		
STC2101	STC	none
Repl.by 2N3150 Cur.		
STC2220	♦STC	108 - 88
STC2221	♦STC	108 - 89
STC2222	♦STC	108 - 90
STC2223	♦STC	108 - 91
STC2224	♦STC	108 - 92
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STC2226	♦STC	108 - 94
STC2227	♦STC	108 - 95
STC2228	♦STC	108 - 96
STC2229	♦STC	108 - 97
STC2230	♦STC	108 - 98
STC2231	STC	108 - 99
STC2500	STC	110 - 69
STC2501	STC	110 - 70
STC2502	STC	110 - 71
STC3706	♦STC	108-100
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STC3723	♦STC	110 - 31
STC3724	♦STC	110 - 32
STC3725	♦STC	110 - 33
STC3726	♦STC	110 - 34
STC3727	♦STC	110 - 35
STC3728	♦STC	110 - 36
STC3729	♦STC	110 - 37
STC3730	♦STC	110 - 38
STC3731	♦STC	110 - 39
STC3732	♦STC	110 - 40
STC3733	♦STC	110 - 41
STC3734	♦STC	110 - 42
STC3735	♦STC	110 - 43
STC3736	♦STC	110 - 44
STC3737	♦STC	110 - 45
STC3738	♦STC	110 - 46
STC3739	♦STC	110 - 47
STC3740	♦STC	110 - 48
STC3741	♦STC	110 - 49
STC3742	♦STC	110 - 50
STC3743	♦STC	110 - 51
STC3744	♦STC	110 - 52
STC3745	♦STC	110 - 53
STC4242	♦STC	106 - 96
STC4252	♦STC	107 - 20
STC4253	♦STC	107 - 21
STC4254	♦STC	107 - 22
STC4255	♦STC	107 - 23
STC4401	♦STC	98 - 60
STC5080	STC	none
Repl.by 2N1371 Cur.		
STC5081	STC	none
Repl.by 2N3172 Cur.		
STC5082	STC	none
Repl.by 2N3173 Cur.		
STC5083	STC	none
Repl.by 2N3183 Cur.		
STC5084	STC	none
Repl.by 2N3184 Cur.		
STC5085	STC	none
Repl.by 2N3185 Cur.		
STC5109/I	STC	88 - 96
STC5110/I	STC	88 - 97
STC5111/I	♦STC	88 - 98
STC5112/I	STC	88 - 99
STC5113/I	STC	88-100
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STC5202	♦STC	88 - 51
STC5203	♦STC	88 - 52
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STC5522/I	STC	88-105
STC5523/I	STC	88-106
STC5524/I	STC	88-107
STC5550	STC	none
Repl.by 2N3163 Cur.		
STC5551	STC	none
Repl.by 2N3164 Cur.		
STC5552	STC	none
Repl.by 2N3165 Cur.		
STC5553	STC	none
Repl.by 2N3175 Cur.		
STC5554	STC	none
Repl.by 2N3176 Cur.		
STC5555	STC	none
Repl.by 2N3177 Cur.		
STC5606	STC	none
Repl.by 2N2881 Cur.		
STC5608	STC	none
Repl.by 2N2882 Cur.		
STC5610	♦STC	88 - 25
STC5611	♦STC	88 - 26
STC5612	♦STC	88 - 27
STC5624	♦STC	88 - 28
STC5648	STC	none
Repl.by 2N3778 Cur.		
STC5649	STC	none
Repl.by 2N3779 Cur.		
STC5650	STC	none
Repl.by 2N3780 Cur.		
STC5651	STC	none
Repl.by 2N3781 Cur.		
STC5652	STC	none
Repl.by 2N3782 Cur.		
STC5802	♦STC	88 - 12
STC5803	♦STC	88 - 13
STC5804	♦STC	88 - 14
STC5805	♦STC	88 - 15
STC5806	♦STC	88 - 16
STC5807	♦STC	88 - 17
STC7114	STC	104 - 39
STC7115	STC	104 - 40
STC7116	STC	104 - 41
STC7117	STC	104 - 42
STC7518	STC	104 - 43
STC7519	STC	104 - 44
STC7520	STC	104 - 45
STC7521	STC	104 - 46
STC7644	♦STC	95 - 44
STC7645	♦STC	95 - 45
STE400	♦GIC	64 - 42
STE401	♦GIC	64 - 43
STP20S	STC	88 - 30
STP30P	STC	88 - 31
STP30S	STC	88 - 32
STP40P	STC	88 - 47
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STP70P	STC	88 - 18
STP70S	STC	88 - 8
STS1121	SEN	106 - 97
STS1122	SEN	106 - 98
STS1131	SEN	106 - 99
STS1132	SEN	106-100
STS1133	SEN	106-101
STS1134	SEN	106-102
STT2400	♦STC	97 - 70
STT2401	♦STC	97 - 71
STT2402	♦STC	97 - 72
STT2403	♦STC	97 - 73
STT2404	♦STC	97 - 74
STT2405	♦STC	97 - 75
STT2406	♦STC	97 - 76
STT2650	♦STC	107 - 34
STT2651	♦STC	107 - 35
STT2652	♦STC	107 - 36
STT2653	♦STC	107 - 37
STT2654	♦STC	107 - 38
STT2655	♦STC	107 - 39
STT2656	♦STC	107 - 40
STT2800	♦STC	103 - 8
STT2801	♦STC	103 - 9
STT2802	♦STC	103 - 10
STT2803	♦STC	103 - 11
STT2804	♦STC	103 - 12
STT2805	♦STC	103 - 13
STT2806	♦STC	103 - 14
STT4451	♦STC	94 - 31
STT4452	♦STC	94 - 32
STT4453	♦STC	94 - 33
STT4454	♦STC	94 - 34
STT4455	♦STC	94 - 35
STT4456	♦STC	94 - 36
STT4483	♦STC	94 - 37
STT6309	♦STC	102 - 21
STT6310	♦STC	102 - 22
STT6312	♦STC	102 - 23
STT6313	♦STC	102 - 24
STT6315	♦STC	102 - 25
STT6316	♦STC	102 - 26
STT6409	♦STC	102 - 27
STT6410	♦STC	102 - 28
STT6412	♦STC	102 - 29
STT6413	♦STC	102 - 30
STT6415	♦STC	102 - 31
STT6416	♦STC	102 - 32
STT9001	♦STC	94 - 38
STT9002	♦STC	94 - 39
STT9003	♦STC	94 - 40
STT9004	♦STC	94 - 41
STT9005	♦STC	94 - 42
STT9006	♦STC	94 - 43
STT9007	♦STC	94 - 44
STT9008	♦STC	94 - 45
STT9009	♦STC	94 - 46
STT9010	♦STC	94 - 47
STT9011	♦STC	94 - 48
STT9012	♦STC	94 - 49
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STX5/5010	AEIL	109 - 80
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STX5/6010	AEIL	109 - 82
STX5/6025	AEIL	109 - 83
STX5/7010	AEIL	109 - 84
STX5/7025	AEIL	109 - 85
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SU2020	TSC	122 - 91
SU2021	TSC	122 - 92
SU2022	TSC	122 - 93
SU2023	TSC	122 - 94
SU2024	TSC	122 - 95
SU2025	TSC	122 - 96
SU2026	TSC	122 - 97
SU2027	TSC	122 - 98
SU2028	TSC	none
Repl.by 2N3934 Cur.		
SU2029	TSC	none
Repl.by 2N3935 Cur.		
SU2032	TSC	none
Repl.by 2N3921 Cur.		
SU2034	TSC	none
Repl.by 2N3922 Cur.		
SU2037	TSC	122 - 99
SU2074	TSC	75 -100
SU2075	TSC	75 -101
SU2076	TSC	76 - 44
SU2077	TSC	76 - 45
SU2078	♦TSC	76 - 46
SU2079	♦TSC	76 - 47
SYL1182	SYL	none
Repl.by 2N2354 Cur.		
SYL1326	SYL	44 - 75
SYL1327	SYL	45 - 50
SYL1380	SYL	45 - 21
SYL1454	SYL	45 - 1
SYL1468	SYL	45 - 22
SYL1591	SYL	45 - 23
SYL1592	SYL	34-106
SYL1617	SYL	45 - 24
SYL1655	SYL	39 - 22
SYL1684	SYL	36 - 84
SYL1690	SYL	36 - 68
SYL1697	SYL	36 - 57
SYL1717	SYL	36 - 69
SYL1750	SYL	45 - 25
SYL1986	SYL	none
Repl.by 2N1684 Obs.		
SYL1987	SYL	none
Repl.by 2N1685 Obs.		
SYL2120	SYL	34-107
SYL2189	SYL	38 - 17
SYL2245	SYL	none
Repl.by 2N1779 Cur.		
SYL2246	SYL	none
Repl.by 2N1780 Obs.		
SYL2248	SYL	none
Repl.by 2N1782 Obs.		
SYL2249	SYL	none
Repl.by 2N1783 Obs.		
SYL2250	SYL	none
Repl.by 2N1784 Obs.		
SYL2300	SYL	none
Repl.by 2N781 Cur.		
SYL2301	SYL	none
Repl.by 2N782 Cur.		
SYL2494	SYL	none
Repl.by 2N783 Cur.		
SYL3013	SYL	122 - 15
SYL3613	SYL	37 - 74
T0003	PHIL	none
Repl.by 2N207 Cur.		
T0004	PHIL	none
Repl.by 2N207A Cur.		
T0005	PHIL	none
Repl.by 2N207B Cur.		
T0012	PHIL	none
Repl.by 2N536 Cur.		
T0014	PHIL	none
Repl.by 2N535B Cur.		
T0015	PHIL	none
Repl.by 2N535A Cur.		
T0031	PHIL	none
Repl.by 2N534 Obs.		
T0033	PHIL	none
Repl.by 2N535 Cur.		
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T1001	PHIL	42 - 50
T1013	PHIL	none
Repl.by 2N223 Cur.		
T1025	PHIL	none
Repl.by 2N354 Obs.		
T1028	PHIL	none
Repl.by 2N128 Cur.		
T1032	PHIL	none
Repl.by 2N346 Cur.		
T1034	PHIL	none
Repl.by 2N232 Cur.		
T1038	PHIL	none
Repl.by 2N240 Cur.		
T1040	PHIL	none
Repl.by 2N352 Obs.		
T1041	PHIL	none
Repl.by 2N353 Obs.		
T1042	PHIL	none
Repl.by 2N226 Cur.		
T1043	PHIL	none
Repl.by 2N227 Cur.		
T1046	PHIL	none
Repl.by 2N224 Cur.		
T1047	PHIL	none
Repl.by 2N225 Cur.		
T1050	PHIL	27 - 15
	SPR	
T1159	PHIL	none
Repl.by 2N355 Obs.		
T1166	PHIL	none
Repl.by 2N393 Cur.		
T1167	PHIL	none
Repl.by 2N386 Obs.		
T1168	PHIL	none
Repl.by 2N387 Obs.		
T1224	PHIL	none
Repl.by 2N344 Cur.		
T1225	PHIL	none
Repl.by 2N345 Cur.		
T1250	PHIL	none
Repl.by 2N588 Cur.		
T1251	PHIL	none
Repl.by 2N499 Cur.		
T1275	PHIL	none
Repl.by 2N495 Cur.		
T1276	PHIL	none
Repl.by 2N496 Cur.		
T1282	PHIL	none
Repl.by 2N1428 Obs.		
T1312	PHIL	none
Repl.by 2N501 Cur.		
T1314	PHIL	none
Repl.by 2N504 Cur.		
T1317	♦AMI	74 - 13
T1322	PHIL	none
Repl.by 2N503 Cur.		
T1326	PHIL	none
Repl.by 2N598 Cur.		
T1327	PHIL	none
Repl.by 2N1122A Cur.		
T1328	PHIL	none
Repl.by 2N1122A Cur.		
T1334	PHIL	none
Repl.by 2N597 Cur.		
T1342	PHIL	none
Repl.by 2N502 Cur.		
T1343	PHIL	none
Repl.by 2N1118 Cur.		
T1344	PHIL	none
Repl.by 2N1119 Cur.		
T1346	PHIL	none
Repl.by 2N599 Cur.		
T1347	PHIL	none
Repl.by 2N670 Obs.		
T1381	PHIL	none
Repl.by 2N1200 Obs.		
T1382	PHIL	none
Repl.by 2N1201 Obs.		
T1383	PHIL	none
Repl.by 2N1199A Obs.		
T1392	PHIL	none
Repl.by 2N1126 Obs.		
T1393	PHIL	none
Repl.by 2N671 Obs.		
T1395	PHIL	none
Repl.by 2N600 Obs.		
T1396	PHIL	none
Repl.by 2N1124 Cur.		
T1397	PHIL	none
Repl.by 2N1125 Cur.		
T1398	PHIL	none
Repl.by 2N1127 Obs.		
T1431	PHIL	none
Repl.by 2N672 Cur.		
T1447	PHIL	none
Repl.by 2N1429 Cur.		
T1472	PHIL	none
Repl.by 2N1495 Cur.		
T1473	PHIL	none
Repl.by 2N1496 Cur.		
T1474	PHIL	none
Repl.by 2N1500 Cur.		
T1475	PHIL	none
Repl.by 2N673 Obs.		
T1501	PHIL	none
Repl.by 2N1118A Cur.		
T1510	PHIL	none
Repl.by 2N501A Cur.		
T1512	PHIL	none
Repl.by 2N601 Obs.		
T1537	PHIL	none
Repl.by 2N1123 Obs.		
T1546	PHIL	none
Repl.by 2N1129 Cur.		
T1548	PHIL	none
Repl.by 2N128 Cur.		
T1558	PHIL	none
Repl.by 2N1676 Cur.		
T1573	PHIL	none
Repl.by 2N1130 Cur.		
T1574	PHIL	none
Repl.by 2N1128 Cur.		
T1581	PHIL	none
Repl.by 2N1677 Cur.		
T1591	PHIL	none
Repl.by 2N1478 Cur.		
T1623	PHIL	none
Repl.by 2N502A Cur.		
T1655	PHIL	none
Repl.by 2N674 Cur.		
T1656	PHIL	none
Repl.by 2N675 Obs.		
T1657	PHIL	none
Repl.by 2N1747 Cur.		
T1670	PHIL	none
Repl.by 2N1199 Obs.		
T1684	PHIL	none
Repl.by 2N1267 Obs.		
T1685	PHIL	none
Repl.by 2N1268 Obs.		
T1686	PHIL	none
Repl.by 2N1269 Obs.		
T1687	PHIL	none
Repl.by 2N1270 Obs.		
T1688	PHIL	none
Repl.by 2N1271 Obs.		
T1689	PHIL	none
Repl.by 2N1272 Obs.		
T1690	PHIL	none
Repl.by 2N1726 Cur.		
T1691	PHIL	none
Repl.by 2N1727 Cur.		
T1691☑	CDLF	none
Repl.by 2N1727 Cur.		
T1692	PHIL	none
Repl.by 2N1728 Cur.		

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
△-Registered with JEDEC by this manufacturer

Obs-In this book

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
T1737	PHIL	none
Repl.by 2N1748A Cur.		
T1738	PHIL	none
Repl.by 2N1749 Cur.		
T1740	PHIL	none
Repl.by 2N1427 Cur.		
T1756	PHIL	none
Repl.by 2N1416 Cur.		
T1788	PHIL	none
Repl.by 2N240 Cur.		
T1789	PHIL	none
Repl.by 2N489 Cur.		
T1796	PHIL	38 - 32
T1806	PHIL	none
Repl.by 2N1158 Obs.		
T1807	PHIL	none
Repl.by 2N1204 Cur.		
T1808	PHIL	none
Repl.by 2N1494 Cur.		
T1814	PHIL	none
Repl.by 2N1746 Cur.		
T1822	PHIL	none
Repl.by 2N1472 Obs.		
T1826	PHIL	27 - 13
T1831	PHIL	none
Repl.by 2N1750 Obs.		
T1832	PHIL	none
Repl.by 2N1742 Cur.		
T1833	PHIL	none
Repl.by 2N1743 Cur.		
T1850	PHIL	none
Repl.by 2N1411 Cur.		
T1851	PHIL	none
Repl.by 2N1752 Cur.		
T1858	PHIL	none
Repl.by 2N1745 Cur.		
T1859	PHIL	none
Repl.by 2N1744 Cur.		
T1866	PHIL	none
Repl.by 2N393 Cur.		
T1871	PHIL	none
Repl.by 2N1663 Obs.		
T1885	PHIL	none
Repl.by 2N773 Obs.		
T1886	PHIL	none
Repl.by 2N774 Obs.		
T1887	PHIL	none
Repl.by 2N775 Obs.		
T1888	PHIL	none
Repl.by 2N776 Obs.		
T1889	PHIL	none
Repl.by 2N777 Obs.		
T1890	PHIL	none
Repl.by 2N778 Obs.		
T1891	PHIL	none
Repl.by 2N770 Obs.		
T1892	PHIL	none
Repl.by 2N772 Obs.		
T1893	PHIL	none
Repl.by 2N771 Obs.		
T1895	PHIL	none
Repl.by 2N1158A Obs.		
T1902	PHIL	none
Repl.by 2N396A Cur.		
T1903	PHIL	none
Repl.by 2N404 Cur.		
T1904	PHIL	none
Repl.by 2N428 Cur.		
T1905	PHIL	28 - 55
		117 - 110
T1930	PHIL	none
Repl.by 2N768 Cur.		
T1937	PHIL	none
Repl.by 2N779 Obs.		
T1947	PHIL	none
Repl.by 2N1500 Cur.		
T1961	PHIL	none
Repl.by 2N1754 Cur.		
T1967	PHIL	none
Repl.by 2N769 Cur.		
T1973	PHIL	none
Repl.by 2N1499A Cur.		
T1992	PHIL	none
Repl.by 2N846 Obs.		
T2015	PHIL	none
Repl.by 2N1785 Cur.		
T2016	PHIL	none
Repl.by 2N1786 Cur.		
T2017	PHIL	none
Repl.by 2N1787 Cur.		
T2018	PHIL	none
Repl.by 2N1868 Cur.		
T2019	PHIL	none
Repl.by 2N1748 Cur.		
T2020	PHIL	none
Repl.by 2N1864 Cur.		
T2021	PHIL	none
Repl.by 2N1788 Cur.		
T2022	PHIL	none
Repl.by 2N1789 Cur.		
T2023	PHIL	none
Repl.by 2N1790 Cur.		
T2024	PHIL	none
Repl.by 2N1865 Cur.		
T2025	PHIL	none
Repl.by 2N1866 Cur.		
T2026	PHIL	none
Repl.by 2N1867 Cur.		
T2028	PHIL	none
Repl.by 2N2398 Cur.		
T2029	PHIL	none
Repl.by 2N2399 Cur.		
T2030	PHIL	none
Repl.by 2N2362 Cur.		
T2050	PHIL	none
Repl.by 2N859 Cur.		
T2057	PHIL	none
Repl.by 2N858 Cur.		
T2058	PHIL	none
Repl.by 2N860 Cur.		
T2059	PHIL	none
Repl.by 2N861 Cur.		
T2060	PHIL	none
Repl.by 2N862 Cur.		
T2061	PHIL	none
Repl.by 2N863 Cur.		
T2062	PHIL	none
Repl.by 2N864 Cur.		
T2071	PHIL	none
Repl.by 2N865 Cur.		
T2088	PHIL	none
Repl.by 2N2182 Obs.		
T2089	PHIL	none
Repl.by 2N2184 Obs.		
T2110	PHIL	none
Repl.by 2N600 Obs.		
T2119	PHIL	none
Repl.by 2N1499A Cur.		
T2144	PHIL	none
Repl.by 2N2181 Obs.		
T2145	PHIL	none
Repl.by 2N2183 Obs.		
T2159	PHIL	none
Repl.by 2N599 Cur.		
T2172	PHIL	none
Repl.by 2N395 Cur.		
T2173	PHIL	none
Repl.by 2N317A Cur.		
T2186	PHIL	none
Repl.by 2N779A Cur.		
T2187	PHIL	none
Repl.by 2N846A Cur.		
T2198	PHIL	none
Repl.by 2N2086 Cur.		
T2211	PHIL	none
Repl.by 2N2048 Cur.		
T2299	PHIL	none
Repl.by 2N2087 Cur.		
T2327	PHIL	none
Repl.by 2N976 Cur.		
T2329	PHIL	none
Repl.by 2N779B Obs.		
T2330	PHIL	none
Repl.by 2N846B Obs.		
T2331	PHIL	none
Repl.by 2N977 Obs.		
T2340	PHIL	none
Repl.by 2N2380 Cur.		
T2351	PHIL	34 - 108
T2352	PHIL	none
Repl.by 2N977 Obs.		
T2357	PHIL	none
Repl.by 2N2187 Cur.		
T2363	PHIL	none
Repl.by 2N2185 Cur.		
T2364	PHIL	30 - 16
T2392	PHIL	none
Repl.by 2N2375 Cur.		
T2393	PHIL	none
Repl.by 2N2376 Cur.		
T2415	PHIL	none
Repl.by 2N2186 Cur.		
T2417	PHIL	none
Repl.by 2N1204A Obs.		
T2418	PHIL	none
Repl.by 2N1494A Cur.		
T2448	PHIL	none
Repl.by 2N706B Cur.		
T2452	PHIL	none
Repl.by 2N2274 Cur.		
T2453	PHIL	none
Repl.by 2N2276 Cur.		
T2454	PHIL	none
Repl.by 2N2278 Cur.		
T2455	PHIL	none
Repl.by 2N2280 Cur.		
T2469	PHIL	none
Repl.by 2N2275 Cur.		
T2470	PHIL	none
Repl.by 2N2277 Cur.		
T2471	PHIL	none
Repl.by 2N2279 Cur.		
T2472	PHIL	none
Repl.by 2N2281 Cur.		
T2478	PHIL	none
Repl.by 2N706 Cur.		
T2479	PHIL	none
Repl.by 2N2651 Cur.		
T2490	PHIL	none
Repl.by 2N2400 Cur.		
T2491	PHIL	none
Repl.by 2N2401 Cur.		
T2492	PHIL	none
Repl.by 2N2402 Cur.		
T2560	PHIL	none
Repl.by 2N2374 Cur.		
T2578	PHIL	none
Repl.by 2N2398 Cur.		
T2579	PHIL	none
Repl.by 2N2399 Cur.		
T2580	PHIL	none
Repl.by 2N2362 Cur.		
T2588	PHIL	none
Repl.by 2N2360 Cur.		
T2589	PHIL	none
Repl.by 2N2361 Cur.		
T2610	PHIL	none
Repl.by 2N2478 Cur.		
T2611	PHIL	none
Repl.by 2N2479 Cur.		
T2679	PHIL	none
Repl.by 2N2399 Cur.		
T2691	PHIL	none
Repl.by 2N2710 Cur.		
T2788	PHIL	30 - 31
T2857	PHIL	58 - 80
T2878	PHIL	30 - 13
T2896	PHIL	30 - 4
T2945	PHIL	30 - 47
T2946	PHIL	30 - 36
T3000	PHIL	none
Repl.by 2N779A Cur.		
T3002	PHIL	none
Repl.by 2N396A Cur.		
T3003	PHIL	none
Repl.by 2N404 Cur.		
T3004	PHIL	none
Repl.by 2N428 Cur.		
T3005	PHIL	none
Repl.by 2N598 Cur.		
TA1575	RCA	none
Repl.by 2N270 Cur.		
TA1575B	RCA	none
Repl.by 2N586 Cur.		
TA1614	RCA	none
Repl.by 2N301 Cur.		
TA1620A	RCA	none
Repl.by 2N647 Cur.		
TA1620B	RCA	none
Repl.by 2N649 Cur.		
TA1628	RCA	none
Repl.by 2N274 Cur.		
TA1650A	RCA	none
Repl.by 2N331 Cur.		
TA1655B	RCA	none
Repl.by 2N579 Cur.		
TA1658	RCA	none
Repl.by 2N370 Cur.		
TA1659	RCA	none
Repl.by 2N371 Cur.		
TA1660	RCA	none
Repl.by 2N372 Cur.		
TA1662	RCA	none
Repl.by 2N373 Cur.		
TA1682	RCA	none
Repl.by 2N561 Cur.		
TA1682A	RCA	none
Repl.by 2N1014 Obs.		
TA1697	RCA	none
Repl.by 2N584 Cur.		
TA1703B	RCA	none
Repl.by 2N1319 Cur.		
TA1704	RCA	none
Repl.by 2N581 Cur.		
TA1705	RCA	none
Repl.by 2N1170 Cur.		
TA1706	RCA	none
Repl.by 2N582 Cur.		
TA1730	RCA	none
Repl.by 2N591 Cur.		
TA1731	RCA	none
Repl.by 2N374 Cur.		
TA1755	RCA	none
Repl.by 2N640 Cur.		
TA1756	RCA	none
Repl.by 2N641 Cur.		
TA1757	RCA	none
Repl.by 2N642 Cur.		
TA1759	RCA	none
Repl.by 2N585 Cur.		
TA1763	RCA	none
Repl.by 2N1300 Cur.		
TA1763A	RCA	none
Repl.by 2N1301 Cur.		
TA1763B	RCA	none
Repl.by 2N1683 Cur.		
TA1765	RCA	none
Repl.by 2N176 Cur.		
TA1766	RCA	none
Repl.by 2N351 Cur.		
TA1767	RCA	none
Repl.by 2N356 Cur.		
TA1771	RCA	none
Repl.by 2N357 Cur.		
TA1772	RCA	none
Repl.by 2N358 Cur.		
TA1773	RCA	none
Repl.by 2N376 Cur.		
TA1778	RCA	none
Repl.by 2N583 Cur.		
TA1782	RCA	none
Repl.by 2N578 Cur.		
TA1783	RCA	none
Repl.by 2N580 Cur.		
TA1794	RCA	none
Repl.by 2N1169 Cur.		
TA1796	RCA	none
Repl.by 2N644 Cur.		
TA1797	RCA	none
Repl.by 2N643 Cur.		
TA1798	RCA	none
Repl.by 2N645 Cur.		
TA1828	RCA	none
Repl.by 2N1224 Cur.		
TA1829	RCA	none
Repl.by 2N1225 Cur.		
TA1830	RCA	none
Repl.by 2N1384 Cur.		
TA1846	RCA	none
Repl.by 2N1177 Cur.		
TA1847	RCA	none
Repl.by 2N1178 Cur.		
TA1860	RCA	none
Repl.by 2N1180 Cur.		
TA1861	RCA	none
Repl.by 2N1179 Cur.		
TA1881	RCA	none
Repl.by 2N307 Cur.		
TA1882	RCA	none
Repl.by 2N955 Cur.		
TA1890	RCA	none
Repl.by 2N456 Cur.		
TA1891	RCA	none
Repl.by 2N457 Cur.		
TA1920	RCA	none
Repl.by 2N794 Cur.		
TA1920A	RCA	none
Repl.by 2N795 Cur.		
TA1920B	RCA	none
Repl.by 2N796 Cur.		
TA1938	RCA	none
Repl.by 2N3118 Cur.		
TA1939	RCA	none
Repl.by 2N3118 Cur.		
TA2084	RCA	95 - 53
TA2090A	RCA	none
Repl.by 2N2938 Cur.		
TA2235A	RCA	none
Repl.by 2N2405 Cur.		
TA2275	RCA	none
Repl.by 2N2895 Cur.		
TA2276	RCA	none
Repl.by 2N2896 Cur.		
TA2277	RCA	none
Repl.by 2N2897 Cur.		
TA2278	RCA	none
Repl.by 2N2898 Cur.		
TA2279	RCA	none
Repl.by 2N2899 Cur.		
TA2280	RCA	none
Repl.by 2N2900 Cur.		
TA2307	RCA	none
Repl.by 2N3375 Cur.		
TA2333	RCA	none
Repl.by 2N2857 Cur.		
TA2359A	RCA	none
Repl.by 2N2873 Obs.		
TA2388	RCA	none
Repl.by 2N3229 Cur.		
TA2402A	RCA	none
Repl.by 2N3054 Cur.		
TA2403A	RCA	none
Repl.by 2N3055 Cur.		
TA2404	RCA	none
Repl.by 2N2953 Cur.		
TA2458	RCA	none
Repl.by 2N3439 Cur.		
TA2462	RCA	none
Repl.by 2N3118 Cur.		
TA2468A	RCA	none
Repl.by 2N3442 Cur.		
TA2469A	RCA	none
Repl.by 2N3441 Cur.		
TA2470	RCA	none
Repl.by 2N3440 Cur.		
TA2492	RCA	none
Repl.by 2N3263 Cur.		
TA2493	RCA	none
Repl.by 2N3264 Cur.		
TA2494	RCA	none
Repl.by 2N3265 Cur.		
TA2495	RCA	none
Repl.by 2N3266 Cur.		
TA2501	RCA	none
Repl.by 2N3262 Cur.		
TA2510	RCA	none
Repl.by 2N3583 Cur.		
TA2511	RCA	none
Repl.by 2N3584 Cur.		
TA2512	RCA	none
Repl.by 2N3585 Cur.		
TA2513	RCA	none
Repl.by 2N3230 Cur.		
TA2514	RCA	none
Repl.by 2N3231 Cur.		
TA2551	RCA	none
Repl.by 2N3553 Cur.		
TA2606	RCA	none
Repl.by 2N3478 Cur.		
TA2616	RCA	none
Repl.by 2N3632 Cur.		
TA2626	RCA	72 - 7
		119 - 18
TA2658	RCA	none
Repl.by 2N3866 Cur.		
TA2701	RCA	none
Repl.by 40460 Cur.		
TA2714	RCA	none
Repl.by 2N4012 Cur.		
TA2735	RCA	none
Repl.by 2N3932 Cur.		
TA2736	RCA	none
Repl.by 2N3933 Cur.		
TA2750	RCA	72 - 8
		119 - 19
TA2758	RCA	none
Repl.by 40675 Obs.		
TA2761	RCA	none
Repl.by 40608 Cur.		
TA2786	RCA	none
Repl.by 2N4068 Cur.		
TA2787	RCA	none
Repl.by 2N4069 Cur.		
TA2800	RCA	none
Repl.by 2N5109 Cur.		
TA2871	RCA	none
Repl.by 2N4240 Cur.		
TA6200	RCA	90 - 43
TA7130	RCA	none
Repl.by 2N5804 Cur.		
TA7130A	RCA	none
Repl.by 2N5805 Cur.		
TA7361	RCA	none
Repl.by 40605 Cur.		
TA7420	RCA	none
Repl.by 2N5840 Cur.		
TA7513	RCA	none
Repl.by 2N5838 Cur.		
TA7530	RCA	none
Repl.by 2N5839 Cur.		
TA-D93	TADI	129 - 53
TA-M93	TADI	126 - 34
TAB101	RTCF	129 - 54
TAD93	TADI	129 - 55
TAM93	TADI	127 - 42
TC0914	GME	67 - 16
		121 - 1
TC0918	GME	59 - 52
TC2369A	GME	67 - 34
		121 - 48
TC2483	GME	65 - 86
TC2484	GME	65 - 87
TDA407	♦APX	67 - 36
TE697	TSC	68 - 53
		117 - 39
TE706	TSC	61 - 91
		120 - 25
TE1420	TSC	68 - 54
		117 - 40
TE1990	TSC	68 - 43
TE2369	TSC	61 - 93
		120 - 36
TE2484	TSC	62 - 66
TE2711	TSC	60 - 39
TE2712	TSC	60 - 40
TE2713	TSC	60 - 41
TE2714	TSC	60 - 42
TE2715	TSC	60 - 43
TE2716	TSC	60 - 44
TE2921	TSC	60 - 45
TE2922	TSC	60 - 46
TE2923	TSC	60 - 47
TE2924	TSC	60 - 48
TE2925	TSC	60 - 49
TE2926	TSC	57 - 64
TE3390	TSC	60 - 50
TE3391	TSC	60 - 51
TE3391A	TSC	60 - 52
TE3392	TSC	60 - 53
TE3393	TSC	60 - 54
TE3394	TSC	60 - 55
TE3395	TSC	60 - 56
TE3396	TSC	60 - 57
TE3397	TSC	60 - 58
TE3398	TSC	60 - 59
TE3414	TSC	62 - 67
TE3415	TSC	62 - 68
TE3605	TSC	58 - 105
		119 - 101
TE3605A	TSC	65 - 34
		119 - 102
TE3606	TSC	58 - 106
		120 - 9
TE3606A	TSC	65 - 35
		120 - 10
TE3607	TSC	58 - 107
		120 - 12
TE3662	TSC	62 - 7
TE3663	TSC	62 - 8
TE3702	TSC	48 - 47
TE3703	TSC	48 - 48
TE3704	TSC	63 - 31
TE3705	TSC	63 - 32
TE3706	TSC	63 - 33
TE3707	TSC	60 - 60
TE3708	TSC	60 - 61
TE3709	TSC	60 - 62
TE3710	TSC	60 - 63
TE3711	TSC	60 - 64
TE3843	TSC	58 - 15
TE3844	TSC	58 - 25
TE3845	TSC	58 - 39
TE3854	TSC	58 - 30
TE3854A	TSC	58 - 31
TE3855	TSC	58 - 40
TE3855A	TSC	58 - 41
TE3859	TSC	58 - 44
TE3859A	TSC	58 - 26
TE3900	TSC	57 - 65
TE3900A	TSC	57 - 66
TE3901	TSC	57 - 67
TE3903	TSC	65 - 28
		119 - 14
TE3904	TSC	65 - 30
		119 - 103
TE3905	TSC	48 - 94
		118 - 71
TE3906	TSC	48 - 77
		119 - 15
TE4123	TSC	65 - 29
TE4124	TSC	65 - 31
TE4125	TSC	48 - 95
TE4126	TSC	48 - 97
TE4256	TSC	57 - 68
TE4409	TSC	65 - 32
TE4410	TSC	65 - 33
TE4424	TSC	65 - 69
TE4425	TSC	69 - 47

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Obs-In this book
△-Registered with JEDEC by this manufacturer

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

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TE4952	TSC	66 - 62
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TE4953	TSC	66 - 63
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TE4954	TSC	66 - 64
		119 - 23
TE5086	TSC	48 - 92
TE5087	TSC	48 - 93
TE5088	TSC	65 - 21
TE5089	TSC	65 - 22
TE5249	TSC	62 - 69
TE5309	TSC	65 - 39
TE5310	TSC	65 - 40
TE5311	TSC	65 - 41
TE5365	TSC	49 - 30
TE5366	TSC	49 - 31
TE5367	TSC	49 - 32
TE5368	TSC	66 - 65
		119 - 24
TE5369	TSC	66 - 66
		119 - 25
TE5370	TSC	66 - 67
		119 - 26
TE5371	TSC	66 - 68
		119 - 27
TE5376	TSC	66 - 91
TE5377	TSC	66 - 92
TE5378	TSC	49 - 76
TE5379	TSC	49 - 77
TE5448	TSC	48 - 49
TE5449	TSC	63 - 34
TE5450	TSC	63 - 35
TE5451	TSC	63 - 36
TF49	SIEG	31 - 72
TF65	SIEG	27 - 50
TF65/30	SIEG	27 - 51
TF66	SIEG	38 - 48
TF66/30	SIEG	38 - 49
TF66/60	SIEG	38 - 50
TF70	SIHG	44 - 82
TF71	SIHG	44 - 66
TF72	SIHG	44 - 23
TF75	SIHG	42 - 45
TF77	SIHG	78 - 77
TF77/30	SIHG	78 - 78
TF78	SIEG	78 - 79
TF78/30	SIEG	78 - 71
TF78/60	SIEG	78 - 72
TF80	SIHG	79 - 54
TF80/30	SIEG	79 - 55
TF80/60	SIEG	79 - 56
TF80/80	SIEG	79 - 57
TF90/30	SIHG	82 - 6
TF90/60	SIHG	82 - 7
TF251	SIHG	52 - 21
TF252	SIHG	52 - 22
TF260	SIHG	69 - 56
TH2369	SPR	129 - 92
TH3638	SPR	129 - 93
TH4258	♦SPR	129 - 94
THP35	FTHF	55 - 7
THP36	FTHF	55 - 12
THP45	FTHF	78 - 88
	THCF	
THP46	FTHF	78 - 89
THP47	FTHF	78 - 90
THP61	FTHF	55 - 5
THP62	FTHF	55 - 6
THP106	FTHF	55 - 31
THP169	FTHF	122 - 100
THP170	FTHF	122 - 101
THP171	FTHF	122 - 102
THP172	FTHF	122 - 103
THP501	THCF	34 - 37
THP502	THCF	34 - 38
TI155	TII	129 - 56
TI158	♦TII	79 - 77
TI158A	♦TII	79 - 78
TI158AL	♦TII	79 - 79
TI158L	♦TII	79 - 80
TI320	TII	35 - 1
TI321	TII	35 - 5
TI363	TII	35 - 87
TI364	TII	35 - 88
TI365	TII	39 - 72
TI366	TII	80 - 60
TI366A	TII	85 - 41
TI367	TII	80 - 61
TI367A	TII	85 - 42
TI368	TII	80 - 62
TI368A	TII	85 - 43
TI369	TII	80 - 63
TI369A	TII	85 - 44
TI370	TII	80 - 64
TI370A	TII	85 - 45
TI376	TII	38 - 18
TI377	TII	38 - 19
TI378	TII	28 - 3
TI379	TII	27 - 107
TI380	TII	27 - 106
TI381	TII	27 - 108
TI382	TII	27 - 109
TI383	TII	27 - 110
TI384	TII	28 - 1
TI385	TII	39 - 73
TI386	TII	39 - 74
TI387	TII	39 - 75
TI388	TII	39 - 76
TI389	TII	39 - 77
TI390	TII	32 - 27
TI391	TII	32 - 28
TI395	TII	39 - 78
TI396	TII	39 - 79
TI397	TII	39 - 62
TI398	TII	39 - 63
TI399	TII	39 - 64
TI400	♦TII	32 - 29
TI401	♦TII	32 - 30
TI402	♦TII	32 - 31
TI403	♦TII	32 - 32
TI407	♦TII	61 - 107
TI408	♦TII	61 - 101
TI409	♦TII	61 - 89
TI410	TII	59 - 39
TI411	TII	63 - 37
TI412	TII	none
	TIIB	
	Repl.by 2N3704 Cur.	
TI413	TII	none
	TIIB	
	Repl.by 2N3705 Cur.	
TI414	TII	none
	TIIB	
	Repl.by 2N3706 Cur.	
TI415	TII	none
	TIIB	
	Repl.by 2N3707 Cur.	
TI416	TII	none
	TIIB	
	Repl.by 2N3708 Cur.	
TI417	TII	none
	TIIB	
	Repl.by 2N3710 Cur.	
TI418	TII	none
	TIIB	
	Repl.by 2N3711 Cur.	
TI419	TII	61 - 90
TI420	TII	none
	Repl.by 2N2387 Cur.	
TI421	TII	none
	Repl.by 2N2388 Cur.	
TI422	TII	none
	Repl.by 2N851 Cur.	
TI423	TII	none
	Repl.by 2N852 Cur.	
TI424	TII	none
	Repl.by 2N2389 Cur.	
TI425	TII	none
	Repl.by 2N2390 Cur.	
TI426	TII	none
	Repl.by 2N2391 Obs.	
TI427	TII	none
	Repl.by 2N2392 Obs.	
TI428	TII	none
	Repl.by 2N2393 Cur.	
TI429	TII	none
	Repl.by 2N2394 Cur.	
TI430	TII	none
	Repl.by 2N849 Cur.	
TI431	TII	none
	Repl.by 2N850 Cur.	
TI432	TII	none
	Repl.by 2N2395 Cur.	
TI433	TII	none
	Repl.by 2N2396 Cur.	
TI440	TIIB	42 - 105
TI442	TII	42 - 110
TI443	TII	35 - 104
TI444	TII	35 - 102
TI445	TII	35 - 98
TI446	TII	31 - 10
TI447	TII	31 - 11
TI448	TII	31 - 12
TI450	TII	none
	Repl.by 2N849 Cur.	
TI451	TII	none
	Repl.by 2N850 Cur.	
TI457	TII	none
	Repl.by 2N2391 Obs.	
TI458	TII	none
	Repl.by 2N2392 Obs.	
TI459	TII	none
	Repl.by 2N2395 Cur.	
TI460	TII	none
	Repl.by 2N2396 Cur.	
TI461	TII	none
	Repl.by 2N2393 Cur.	
TI462	TII	none
	Repl.by 2N2394 Cur.	
TI474	TII	none
	Repl.by 2N929 Cur.	
TI475	TII	none
	Repl.by 2N930 Cur.	
TI485	TII	63 - 38
		118 - 45
TI490	TII	none
	Repl.by 2N780 Cur.	
TI539	TII	79 - 81
TI540	TII	79 - 82
TI602	TII	none
	Repl.by 2N997 Obs.	
TI605	TII	none
	Repl.by 2N2432 Cur.	
TI607	TII	none
	Repl.by 2N2692 Cur.	
TI607A	TII	none
	Repl.by 2N2692 Cur.	
TI608	TII	none
	Repl.by 3N74 Cur.	
TI609	TII	none
	Repl.by 3N76 Cur.	
TI610	TII	none
	Repl.by 2N3035 Cur.	
TI611	TII	none
	Repl.by 2N3034 Cur.	
TI612	TII	none
	Repl.by 2N3033 Cur.	
TI613	TII	none
	Repl.by 2N2639 Cur.	
TI614	TII	none
	Repl.by 2N2640 Cur.	
TI615	TII	none
	Repl.by 2N2641 Cur.	
TI616	TII	none
	Repl.by 2N2642 Cur.	
TI617	TII	none
	Repl.by 2N2643 Cur.	
TI618	TII	none
	Repl.by 2N2644 Cur.	
TI619	TII	none
	Repl.by 2N2802 Cur.	
TI620	TII	none
	Repl.by 2N2803 Cur.	
TI621	TII	none
	Repl.by 2N2804 Cur.	
TI622	TII	none
	Repl.by 2N2805 Cur.	
TI623	TII	none
	Repl.by 2N2806 Cur.	
TI624	TII	none
	Repl.by 2N2807 Cur.	
TI625	TII	none
	Repl.by 2N2060 Cur.	
TI693	TII	none
	Repl.by 2N2386 Cur.	
TI694	TII	none
	Repl.by 2N2497 Cur.	
TI695	TII	none
	Repl.by 2N2498 Cur.	
TI696	TII	none
	Repl.by 2N2499 Cur.	
TI697	TII	none
	Repl.by 2N2500 Cur.	
TI711A	TII	39 - 93
TI712	TII	none
	Repl.by 2N2413 Cur.	
TI801	TII	none
	Repl.by 2N3036 Cur.	
TI802	TII	none
	Repl.by 2N3037 Cur.	
TI803	TII	none
	Repl.by 2N3038 Cur.	
TI804	TII	none
	Repl.by 2N3039 Cur.	
TI805	TII	none
	Repl.by 2N3040 Cur.	
TI806	TII	none
	Repl.by 2N3043 Cur.	
TI807	TII	none
	Repl.by 2N3044 Cur.	
TI808	TII	none
	Repl.by 2N3045 Cur.	
TI809	TII	none
	Repl.by 2N3046 Cur.	
TI810	TII	none
	Repl.by 2N3047 Cur.	
TI811	TII	none
	Repl.by 2N3048 Cur.	
TI812	TII	none
	Repl.by 2N3049 Cur.	
TI813	TII	none
	Repl.by 2N3050 Cur.	
TI814	TII	none
	Repl.by 2N3051 Cur.	
TI815	TII	none
	Repl.by 2N3052 Cur.	
TI874	TII	none
	Repl.by 3N34 Cur.	
TI876	TII	none
	Repl.by 2N2865 Cur.	
TI884	TII	none
	Repl.by 2N2415 Cur.	
TI885	TII	none
	Repl.by 2N2416 Cur.	
TI886	TII	none
	Repl.by 2N2411 Cur.	
TI887	TII	none
	Repl.by 2N2412 Cur.	
TI888	TII	none
	Repl.by 2N3554 Cur.	
TI890	TII	none
	Repl.by 2N2861 Cur.	
TI891	TII	none
	Repl.by 2N964 Cur.	
TI898	TII	none
	Repl.by 2N985 Cur.	
TI899	TII	none
	Repl.by 2N2173 Cur.	
TI903	TII	none
	Repl.by 2N1149 Cur.	
TI904	TII	none
	Repl.by 2N1150 Cur.	
TI904A	TII	none
	Repl.by 2N1151 Cur.	
TI905	TII	none
	Repl.by 2N1152 Cur.	
TI910	TII	none
	Repl.by 2N1153 Cur.	
TI951	TII	none
	Repl.by 2N1154 Cur.	
TI952	TII	none
	Repl.by 2N1155 Cur.	
TI953	TII	none
	Repl.by 2N1156 Cur.	
TI1392	TII	none
	Repl.by 2N2410 Cur.	
TI1722A	TII	none
	Repl.by 2N1722A Cur.	
TI1724A	TII	none
	Repl.by 2N1724A Cur.	
TI2150	TII	none
	Repl.by 2N2150 Cur.	
TI2151	TII	none
	Repl.by 2N2151 Cur.	
TI3000	TII	none
	Repl.by 2N3328 Cur.	
TI3001	TII	none
	Repl.by 2N3329 Cur.	
TI3015	TII	none
	Repl.by 2N3570 Cur.	
TI3016	TII	59 - 70
TI3018	TII	none
	Repl.by 2N3333 Cur.	
TI3027	♦TII	85 - 46
	TIIB TIID	
TI3028	♦TII	85 - 47
	TIIB TIID	
TI3029	♦TII	85 - 48
	TIIB TIID	
TI3030	♦TII	85 - 49
	TIIB TIID	
TI3033	TII	none
	Repl.by 2N3418 Cur.	
TI3034	TII	none
	Repl.by 2N3419 Cur.	
TI3035	TII	none
	Repl.by 2N3420 Cur.	
TI3036	TII	none
	Repl.by 2N3421 Cur.	
TIA03	TII	37 - 61
TIA04	TII	37 - 62
TIA05	TII	37 - 63
TIG05	TII	86 - 35
TIG06	TII	86 - 36
TIG07	TII	86 - 37
TIG08	TII	86 - 38
TIG09	TII	86 - 39
TIG10	TII	86 - 40
TIL58	♦TII	126 - 95
	TIIB	
TIL78	TII	126 - 96
	TIIB	
TIP04	TII	110 - 54
		114 - 57
TIP14	TII	98 - 20
	TIIB	116 - 56
TIP24	TII	98 - 80
	TIIB	
TIP27	TIIB	98 - 8
TIS01	TII	127 - 43
TIS02	TII	127 - 44
TIS03	TII	none
	TIIB	
	Repl.by 2N3702 Cur.	
TIS04	TII	none
	TIIB	
	Repl.by 2N3703 Cur.	
TIS05	TIIB	none
	Repl.by 2N3993 Cur.	
TIS06	TII	none
	Repl.by 2N3573 Cur.	
TIS07	TII	none
	Repl.by 2N3574 Cur.	
TIS11	TII	122 - 104
TIS15	TII	none
	Repl.by 2N3821 Cur.	
TIS16	TII	none
	Repl.by 2N3822 Cur.	
TIS17	TII	none
	Repl.by 2N3824 Cur.	
TIS22	♦TII	55 - 59
TIS23	♦TII	55 - 60
TIS24	♦TII	55 - 74
TIS44	TIIB	66 - 41
		118 - 46
TIS45	TIIB	66 - 93
		119 - 60
TIS46	TIIB	66 - 94
		120 - 11
TIS47	TIIB	67 - 6
		120 - 68
TIS48	TIIB	67 - 22
		121 - 11
TIS49	TIIB	67 - 23
		121 - 12
TIS51	TIIB	67 - 7
		120 - 73
TIS52	TIIB	66 - 100
		120 - 38
TIS55	TIIB	66 - 101
		120 - 37
TIS71	♦TII	69 - 36
	TIIB	
TIS72	♦TII	69 - 37
	TIIB	
TIS82	♦TII	91 - 6
		119 - 4
TIS85	♦TII	60 - 70
	TIIB	
TIS88	♦TII	none
	TIIB	
Repl.by 2N5245 Cur.		
TIS89	♦TII	68 - 22
	TIIB	
TIS102	♦TII	71 - 69
TIS103	♦TII	71 - 70
TIS106	♦TII	66 - 42
TIS107	♦TII	66 - 43
TIS113	♦TII	70 - 75
	TIIB	118 - 64
TIS114	♦TII	70 - 76
	TIIB	118 - 65
TIS115	♦TII	70 - 77
	TIIB	118 - 66
TIS116	♦TII	70 - 78
	TIIB	118 - 67
TIX09	TII	59 - 66
TIX10	TII	59 - 67
TIX155	TII	106 - 103
TIX210	TII	none
Repl.by 2N3551 Cur.		
TIX211	TII	none
Repl.by 2N3552 Cur.		
TIX316	TII	none
Repl.by 2N2996 Cur.		
TIX317	TII	none
Repl.by 2N3601 Cur.		
TIX318	TII	none
Repl.by 2N3603 Cur.		
TIX608	TII	none
Repl.by 3N74 Cur.		
TIX609	TII	none
Repl.by 3N79 Cur.		
TIX610	TII	none
Repl.by 2N3035 Cur.		
TIX611	TII	none
Repl.by 2N3034 Cur.		
TIX612	TII	none
Repl.by 2N3033 Cur.		
TIX613	TII	none
Repl.by 2N2639 Cur.		
TIX614	TII	none
Repl.by 2N2640 Cur.		
TIX615	TII	none
Repl.by 2N2641 Cur.		
TIX616	TII	none
Repl.by 2N2642 Cur.		
TIX617	TII	none
Repl.by 2N2643 Cur.		
TIX618	TII	none
Repl.by 2N2644 Cur.		
TIX619	TII	none
Repl.by 2N2802 Cur.		
TIX620	TII	none
Repl.by 2N2803 Cur.		
TIX621	TII	none
Repl.by 2N2804 Cur.		
TIX622	TII	none
Repl.by 2N2805 Cur.		
TIX623	TII	none
Repl.by 2N2806 Cur.		
TIX624	TII	none
Repl.by 2N2807 Cur.		
TIX690	TII	122 - 105
TIX712	TII	none
Repl.by 2N2413 Cur.		
TIX802	TII	none
Repl.by 2N3037 Cur.		
TIX803	TII	none
Repl.by 2N3038 Cur.		
TIX804	TII	none
Repl.by 2N3039 Cur.		
TIX805	TII	none
Repl.by 2N3040 Cur.		
TIX806	TII	none
Repl.by 2N3043 Cur.		
TIX807	TII	none
Repl.by 2N3044 Cur.		
TIX808	TII	none
Repl.by 2N3045 Cur.		
TIX809	TII	none
Repl.by 2N3046 Cur.		
TIX810	TII	none
Repl.by 2N3047 Cur.		
TIX811	TII	none
Repl.by 2N3048 Cur.		
TIX812	TII	none
Repl.by 2N3049 Cur.		
TIX813	TII	none
Repl.by 2N3050 Cur.		
TIX814	TII	none
Repl.by 2N3051 Cur.		
TIX815	TII	none
Repl.by 2N3052 Cur.		
TIX876	TII	none
Repl.by 2N2865 Cur.		
TIX880	TII	none
Repl.by 2N2865 Cur.		
TIX881	TII	122 - 106
TIX882	TII	122 - 107
TIX883	TII	122 - 108
TIX888	TII	none
Repl.by 2N3554 Cur.		
TIX890	TII	none
Repl.by 2N2861 Cur.		
TIX891	TII	none
Repl.by 2N2862 Cur.		
TIX895	TII	32 - 51
		121 - 66
TIX896	TII	none
Repl.by 2N797 Cur.		
TIX1392	TII	none
Repl.by 2N2410 Cur.		
TIX1393	TII	none
Repl.by 2N2410 Cur.		
TIX2000	TII	34 - 87
TIX2150	TII	none
Repl.by 2N2150 Cur.		
TIX2151	TII	none
Repl.by 2N2151 Cur.		
TIX3015	TII	none
Repl.by 2N3570 Cur.		

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Obs-In this book
△-Registered with JEDEC by this manufacturer

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
TIX3016	TII	59-71
TIX3016A	TII	59-72
TIX3023	TII	40-6
TIX3024	TII	32-49
TIX3032	TII	32-33
TIX3033	TIIB	none
Repl.by 2N3418 Cur.		
TIX3034	TII	none
Repl.by 2N3419 Cur.		
TIX3035	TIIB	none
Repl.by 2N3420 Cur.		
TIX3036	TII	none
	TIIB	
Repl.by 2N3421 Cur.		
TIXA01	TII	38-92
TIXA02	TII	38-93
TIXA03	TII	38-106
TIXA04	TII	38-107
TIXA05	TII	38-108
TIXL58	none	none
Repl.by TIL58 Cur.		
TIXM01	TII	32-20
TIXM02	TII	32-9
TIXM03	TII	32-18
TIXM04	TII	32-4
TIXM05	TII	32-26
TIXM06	TII	32-21
TIXM07	TII	32-17
TIXM08	TII	32-22
TIXM10	TIIB	32-41
TIXM11	TIIB	32-42
TIXM12	♦TII	73-22
TIXM13	TII	28-16
TIXM14	♦TII	30-105
TIXM15	♦TII	30-106
TIXM16	♦TII	30-103
TIXM17	♦TII	30-104
TIXM18	TII	30-108
TIXM19	TII	30-109
TIXM101	TII	32-50
	TIIB	
TIXM103	♦TII	28-64
	TIIB	
TIXM104	♦TII	28-62
	TIIB	
TIXM105	TIIB	28-65
TIXM106	TIIB	28-66
TIXM107	TIIB	28-18
TIXM108	TIIB	28-17
TIXM201	TII	32-2
TIXM202	TII	32-3
TIXM203	TII	32-19
TIXM204	TII	32-13
TIXM205	TII	32-14
TIXM206	TII	32-15
TIXM207	TII	31-106
TIXM301	♦TII	73-40
TIXP07	TII	89-4
TIXP39	♦TII	none
Repl.by 2N5939 Cur.		
TIXP40	♦TII	none
Repl.by 2N5940 Cur.		
TIXS09	TII	59-68
TIXS11	TII	73-99
	TIIB	122-109
TIXS28	TII	59-41
TIXS29	TII	59-19
TIXS30	TII	59-20
TIXS31	TII	59-21
TIXS33	TII	none
	TIIB	
Repl.by TIS39 Obs.		
TIXS37	TIIB	none
Repl.by TIS37 Cur.		
TIXS41	TII	none
Repl.by 2N4859 Cur.		
TIXS42	TII	none
	TIIB	
Repl.by TIS42 Cur.		
TIXS67	♦TIIB	74-27
TIXS78	TIIB	77-5
TIXS79	TIIB	77-6
TJ1	ITTB	40-39
TJ2	ITTB	40-40
TJ3	ITTB	40-41
TK20	ITTB	none
Repl.by ASY66 Obs.		
TK20A	ITTB	35-50
TK20B	ITTB	37-97
TK20C	ITTB	122-29
TK21	ITTB	41-30
TK21A	ITTB	35-28
TK21B	ITTB	37-86
TK21C	ITTB	122-30
TK23	ITTB	40-107
TK23A	ITTB	40-47
TK23C	ITTB	40-108
TK24	ITTB	none
Repl.by ASY64 Obs.		
TK24A	ITTB	35-33
TK24B	ITTB	37-91
TK24C	ITTB	122-31
TK25	ITTB	none
Repl.by ASY60 Obs.		
TK25A	ITTB	35-57
TK25B	ITTB	37-98
TK25C	ITTB	122-32
TK26	ITTB	41-31
TK26A	ITTB	35-29
TK26B	ITTB	37-87
TK27	ITTB	41-40
TK27A	ITTB	35-34
TK27B	ITTB	37-92
TK28	ITTB	41-62
TK28C	ITTB	41-63
TK30	ITTB	41-52
TK30C	ITTB	41-53
TK31	ITTB	41-70
TK31C	ITTB	41-71
TK33C	ITTB	45-47
TK34C	ITTB	35-58
TK35	ITTB	none
Repl.by ASY56 Cur.		
TK35C	ITTB	41-32
TK36	ITTB	none
Repl.by ASY57 Cur.		
TK36C	ITTB	41-42
TK37	ITTB	none
Repl.by ASY58 Cur.		
TK37C	ITTB	41-59
TK38	ITTB	none
Repl.by ASY59 Cur.		
TK38C	ITTB	41-76
TK40	ITTB	41-16
TK40A	ITTB	40-58
TK40C	ITTB	41-20
TK41	ITTB	40-89
TK41C	ITTB	40-109
TK42	ITTB	41-8
TK42C	ITTB	40-110
TK44	ITTB	none
Repl.by ASY51 Cur.		
TK44C	ITTB	38-33
TK45	ITTB	none
Repl.by ACY29 Cur.		
TK45C	ITTB	41-9
TK46	ITTB	none
Repl.by ASY50 Cur.		
TK46C	ITTB	40-83
TK47C	ITTB	40-84
TK48C	ITTB	38-34
TK49C	ITTB	34-109
TK70	ITTB	62-77
TK71	ITTB	62-74
TK72	ITTB	62-75
TK200A	ITTB	105-9
TK201A	ITTB	105-10
TK202A	ITTB	none
Repl.by 2N2234 Cur.		
TK203A	ITTB	none
Repl.by 2N2235 Cur.		
TK250A	ITTB	50-81
TK251A	ITTB	50-82
TK252A	ITTB	none
Repl.by 2N2236 Cur.		
TK253A	ITTB	none
Repl.by 2N2237 Cur.		
TK254A	ITTB	70-39
TK255A	ITTB	63-97
TK256A	ITTB	63-98
TK257A	ITTB	64-44
TK258A	ITTB	64-45
		119-84
TK259A	ITTB	64-46
		119-85
TK264A	ITTB	63-99
TK400A	ITTB	80-101
TK401A	ITTB	80-102
TK402A	ITTB	80-103
TK403A	ITTB	80-104
TK3055	♦TEK	106-104
TK9201	TEK	106-105
TK30551	♦TEK	106-106
TK30552	♦TEK	106-107
TK30553	♦TEK	106-108
TK30554	♦TEK	106-109
TK30555	♦TEK	106-110
TK30556	♦TEK	107-1
TK30557	♦TEK	107-2
TK30558	♦TEK	107-3
TK30559	♦TEK	107-4
TK30560	♦TEK	107-5
TMT696	TEC	55-82
TMT697	TEC	56-1
TMT839	TEC	55-61
TMT840	TEC	55-62
TMT841	TEC	55-67
TMT842	TEC	55-63
TMT843	TEC	55-68
TMT1131	TEC	46-81
TMT1132	TEC	46-76
TMT1543	TEC	52-25
TMT2427	TEC	52-26
TN51	UNI	96-65
		116-37
TN52	UNI	96-66
		116-92
TN55	SPR	none
Repl.by 2N4383 Cur.		
TN56	SPR	none
Repl.by 2N4384 Cur.		
TN71	UNI	95-46
		116-38
TN72	UNI	95-47
		116-93
TN237	SPR	71-84
		117-60
TN238	SPR	69-13
		117-61
TN301	UNI	99-16
		116-57
TN302	UNI	99-17
		116-58
TN303	UNI	99-18
		116-59
TN304	UNI	99-19
		115-83
TNT839	TEC	53-27
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TNT840	TEC	53-28
TNT841	TEC	53-54
TNT842	TEC	53-29
TNT843	TEC	53-55
TNT1131	♦TEC	46-26
TNT1132	♦TEC	46-25
TP1	ITTB	38-20
TP2	ITTB	38-70
TP4123	SPR	66-69
TP4124	SPR	66-95
TP4125	♦SPR	49-78
TP4126	♦SPR	49-81
TP4274	♦SPR	59-6
		120-69
TP4275	♦SPR	59-7
		120-70
TQ53	♦SPR	51-9
TQ53A	♦SPR	51-10
TQ54	♦SPR	50-58
TQ54A	♦SPR	50-59
TQ59A	♦SPR	51-11
		117-70
TQ60A	♦SPR	50-60
		117-71
TQ61A	♦SPR	51-12
		117-72
TQ62A	♦SPR	50-61
		117-73
TQ63A	♦SPR	51-13
		117-74
TQ64A	♦SPR	50-62
		117-75
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TRL2015	ITC	110-107
TRL2254S	ITC	91-8
TRL2255S	ITC	110-108
TRL2504	ITC	91-9
TRL2504S	ITC	91-10
TRL2505	ITC	110-109
TRL2505S	ITC	110-110
TRL2754S	ITC	91-11
TRL2755S	ITC	111-1
TRL3014	ITC	91-12
TRL3014S	ITC	91-13
TRL3015	ITC	111-2
TRL3015S	ITC	111-3
TRL3504	ITC	91-14
TRL3505	ITC	111-4
TRL3514S	ITC	91-54
TRL3515S	ITC	111-5
TRL4014	ITC	91-15
TRL4014S	ITC	91-16
TRL4015	ITC	111-6
TRL4015S	ITC	91-72
TRL4504	ITC	91-17
TRL4505	ITC	91-73
TRL5014	ITC	91-18
TRL5014S	ITC	91-19
TRL5015	ITC	91-74
TRL5015S	ITC	91-75
TRL5504	ITC	91-20
TRL5505	ITC	91-76
TRL6014	ITC	91-21
TRL6015	ITC	91-77
TRL6504	ITC	91-22
TRL6505	ITC	91-78
TRL7014	ITC	91-23
TRL7015	ITC	91-79
TRL7504	ITC	91-24
TRL7505	ITC	91-80
TRL8014	ITC	91-25
TRL8015	ITC	91-81
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TRM2015	ITC	91-82
TRM2254S	ITC	91-27
TRM2255S	ITC	91-83
TRM2504	ITC	91-28
TRM2504S	ITC	91-29
TRM2505	ITC	91-84
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TRM2755S	ITC	91-86
TRM3014	ITC	91-31
TRM3014S	ITC	91-32
TRM3015	ITC	91-87
TRM3015S	ITC	91-88
TRM3504	ITC	91-33
TRM3505	ITC	91-89
TRM3514S	ITC	91-34
TRM3515S	ITC	91-90
TRM4014	ITC	91-35
TRM4014S	ITC	91-36
TRM4015	ITC	91-91
TRM4015S	ITC	91-92
TRM4504	ITC	91-37
TRM4505	ITC	91-93
TRM5014	ITC	91-38
TRM5014S	ITC	91-39
TRM5015	ITC	91-94
TRM5015S	ITC	91-95
TRM5504	ITC	91-40
TRM6014	ITC	91-41
TRM6015	ITC	91-96
TRM6504	ITC	91-42
TRM6505	ITC	91-97
TRM7014	ITC	91-43
TRM7015	ITC	91-98
TRM7504	ITC	91-44
TRM7505	ITC	91-99
TRM8014	ITC	91-45
TRM8015	ITC	91-100
TRS3205S	♦ITC	96-67
TRS4405S	ITC	none
cont.next col.		
TRS4405S		
(cont.)	STI	
Repl.by 2N3861 Cur.		
TS1	ITTB	28-96
TS2	ITTB	28-97
TS3	ITTB	28-98
TS7	ITTB	30-97
TS8	ITTB	30-98
TS9	ITTB	37-79
TS13	ITTB	37-37
	STCA	
TS14	ITTB	37-38
	STCA	
TS15	ITTB	30-90
TS17	ITTB	37-80
TS176	TSE	80-65
	TUNE	
TS601	TUNE	40-76
TS602	TUNE	40-77
TS603	TUNE	40-78
TS604	TUNE	40-79
TS605	TUNE	38-51
TS606	TUNE	38-52
TS609	TUNE	86-41
TS610	TUNE	85-50
TS612	TSE	none
	TUNE	
Repl.by 2N378 Cur.		
TS613	TSE	none
	TUNE	
Repl.by 2N379 Cur.		
TS614	TSE	none
	TUNE	
Repl.by 2N380 Cur.		
TS616	TSE	none
	TUNE	
Repl.by 2N381 Cur.		
TS617	TSE	none
	TUNE	
Repl.by 2N382 Cur.		
TS618	TSE	none
	TUNE	
Repl.by 2N383 Cur.		
TS619	TSE	31-23
	TUNE	
TS748	TUNE	85-90
TS1000	TUNE	40-36
TT500	TYC	104-11
TT501	TYC	104-12
TT502	TYC	104-13
TW135	SPR	50-31
		128-23
TX116-1	SONY	51-47
TX116-2	SONY	51-48
TX116-3	SONY	51-49
TZ7000	SPR	69-57
TZ7001	SPR	69-58
TZ7002	SPR	69-59
TZ7003	SPR	69-60
TZ7500	SPR	50-96
TZ7501	SPR	50-97
TZ7502	SPR	50-98
TZ7503	SPR	50-99
u89	SIX	76-48
u106	SIX	none
Repl.by 2N2841 Cur.		
u107	SIX	none
Repl.by 2N2842 Cur.		
u108	SIX	none
Repl.by 2N2843 Cur.		
u109	SIX	none
Repl.by 2N2844 Cur.		
u182	SIX	77-105
u205	SIX	76-49
u206	SIX	76-50
u207	SIX	76-51
u1177	TSC	none
Repl.by 2N3365 Cur.		
u1178	TSC	none
Repl.by 2N3366 Cur.		
u1179	TSC	none
Repl.by 2N3367 Cur.		
u1180	TSC	none
Repl.by 2N3368 Cur.		
u1181	none	none
Repl.by 2N3369 Cur.		
u1182	TSC	none
Repl.by 2N3370 Cur.		
u1321	none	none
Repl.by 2N3966 Cur.		
u1322	TSC	none
Repl.by 2N3967 Cur.		
u1323	TSC	none
Repl.by 2N3968 Cur.		
u1324	TSC	none
Repl.by 2N3969 Cur.		
u1327	TSC	122-110
u3002	TSC	123-1
u7003	PHIL	59-10
		120-104
U89	SIX	73-100
		128-24
U139	♦SIX	73-101
U139D	♦SIX	73-102
U182	SIX	77-106
U203	SIX	76-52
U204	SIX	76-53
U205	SIX	76-54
		126-35
U206	SIX	76-55
		126-36
U207	SIX	76-56
		126-37
U248	♦SIX	none
Repl.by 2N5902 Cur.		
U248A	♦SIX	none
Repl.by 2N5906 Cur.		
U249	♦SIX	none
Repl.by 2N5903 Cur.		
U249A	♦SIX	none
Repl.by 2N5907 Cur.		
U250	♦SIX	none
Repl.by 2N5904 Cur.		
U250A	♦SIX	none
Repl.by 2N5908 Cur.		
U251	INL	none
	♦SIX	
Repl.by 2N5905 Cur.		
U251A	♦SIX	none
Repl.by 2N5909 Cur.		
U252	♦INL	none
	♦SIX	
Repl.by 2N5911 Cur.		
U253	♦INL	none
	♦SIX	
Repl.by 2N5912 Cur.		
U1181	TSC	none
Repl.by 2N3369 Cur.		
U1321	TSC	none
Repl.by 2N3966 Cur.		
U2047E	♦TSC	76-57
UC22	SODI	75-7
UC23	SODI	75-5
UC40	SODI	73-12
UC41	SODI	73-9
UC42	SODI	73-13
UC43	SODI	73-10
UC105	SODI	76-58
UC120	♦SODI	76-59
UC125	SODI	76-60
UC135	SODI	76-61
UC140	SODI	73-41
UC150	SODI	none
Repl.by 2N4416 Cur.		
UC258	SODI	76-62
UC300	SODI	73-103
UC305	SODI	73-104
UC310	SODI	73-105
UC315	SODI	73-106
UC320	SODI	73-107
UC325	SODI	73-108
UC330	SODI	73-109
UC335	SODI	73-110
UC340	SODI	74-1
UC450	SODI	74-44
UC451	SODI	74-45
UC701	SODI	76-63
UC750	SODI	76-64
UC801	♦SODI	74-2
UC803	♦SODI	74-3
UC804	SODI	74-4
UC850	♦SODI	74-5
UC852	SODI	74-6
UC900	SODI	62-70
UC1100	SODI	50-2
UC1700	INL	none
	♦SODI	
Repl.by 3N163 Cur.		
UCX1702	SODI	none
Repl.by 3N164 Cur.		
UCX2700	SODI	none
Repl.by 3N166 Cur.		
UCX2701	SODI	none
Repl.by 3N165 Cur.		
UD1000	SPR	126-38
UD1001	SPR	128-25
UD2000	SPR	126-39
UD3008	SPR	129-57
UPA16	NECJ	128-26
USA55191/33	none	91-101
		116-108
USA55191/34	none	91-102
		117-9
USA55191/35	none	52-1
		118-91
USA55191/36	none	116-60
USAF501ES001M	none	60-84
		115-98
USAF505ES105	none	38-21
USAF506ES010M	none	85-51
		none
USAF508ES020P	none	51-1
USAF508ES021P	none	51-2
USAF509ES025P	none	39-70
USAF510ES030M	none	68-70
USAF510ES031M	none	68-71
USAF511ES035P	none	69-83
USAF511ES036P	none	69-84
		116-102
USAF512ES040P	none	38-22
USAF513ES045P	none	39-71
USAF514ES050M	none	105-11
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USAF515ES045M	none	47-109
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USAF515ES046M	none	48-1
		117-88
USAF516ES047M	none	49-16
		117-91
USAF516ES048M	none	49-17
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USAF517ES060M	none	50-72
		117-10
USAF518ES065M	none	49-14
USAF518ES066M	none	60-93
USAF519ES067M	none	60-94
USAF519ES068M	none	60-95

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

1. TYPE No. CROSS INDEX

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USAF521ES071M	none	50- 74
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USAF522ES067M	none	119- 35
USAF522ES075M	none	65- 54
		119- 36
USAF522ES076M	none	65- 55
USAF523ES077M	none	65- 56
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USAF523ES078M	none	65- 57
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USAF524ES080M	none	108-101
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V10/50B	NTLB	37- 47
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V15/10P	NTLB	82- 9
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V30/15NP	NTLB	84- 58
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V30/30DP	NTLB	82- 18
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V120RH	♦USC	57- 69
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V575	NECJ	95- 48
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V602	USC	95- 51
V610	USC	97- 77
V611	USC	97- 78
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WX115UA	WESY	none
Repl.by 2N1809 Cur.		
WX115UB	WESY	none
Repl.by 2N1810 Cur.		
WX115UC	WESY	none
Repl.by 2N1811 Cur.		
WX115UD	WESY	none
Repl.by 2N1812 Cur.		
WX115VA	WESY	none
Repl.by 2N1809 Cur.		
WX115VB	WESY	none
Repl.by 2N1810 Cur.		
WX115VC	WESY	none
Repl.by 2N1811 Cur.		
WX115VD	WESY	none
Repl.by 2N1812 Cur.		
WX115WA	WESY	none
Repl.by 2N1816 Cur.		
WX115WB	WESY	none
Repl.by 2N1817 Cur.		
WX115WC	WESY	none
Repl.by 2N1818 Cur.		
WX115WD	WESY	none
Repl.by 2N1819 Cur.		
WX115XA	WESY	none
Repl.by 2N1823 Cur.		
WX115XB	WESY	none
Repl.by 2N1824 Cur.		
WX115XC	WESY	none
Repl.by 2N1825 Cur.		
WX115XD	WESY	none
Repl.by 2N1826 Cur.		
WX118UA	WESY	none
Repl.by 2N2226 Cur.		
WX118UB	WESY	none
Repl.by 2N2227 Cur.		
WX118UC	WESY	none
Repl.by 2N2228 Cur.		
WX118XA	WESY	none
Repl.by 2N2230 Cur.		
WX118XB	WESY	none
Repl.by 2N2231 Cur.		
WX118XC	WESY	none
Repl.by 2N2232 Cur.		
WX1015	WESY	none
Repl.by 2N1015 Cur.		
WX1015A	WESY	none
Repl.by 2N1015A Cur.		
WX1015B	WESY	none
Repl.by 2N1015B Cur.		
WX1015C	WESY	none
Repl.by 2N1015C Cur.		
WX1015D	WESY	none
Repl.by 2N1015D Cur.		
WX1015E	WESY	none
Repl.by 2N1015E Cur.		
WX1015F	WESY	none
Repl.by 2N1015F Obs.		
WX1016	WESY	none
Repl.by 2N1016 Cur.		
WX1016A	WESY	none
Repl.by 2N1016A Cur.		
WX1016B	WESY	none
Repl.by 2N1016B Cur.		
WX1016C	WESY	none
Repl.by 2N1016C Cur.		
WX1016D	WESY	none
Repl.by 2N1016D Cur.		
WX1016E	WESY	none
Repl.by 2N1016E Cur.		
WX1016F	WESY	none
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Repl.by 2N3631 Cur.		
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X31	BOG	98- 6
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X32	BOG	97- 82
X32A	BOG	97- 83
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X110	BACE	80-105
X113	BACE	82- 26
X133	BACE	82- 27
X134	BACE	83- 50
X137	BACE	83- 51
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Repl.by 2N1936 Cur.		
X351B	TII	none
Repl.by 2N1937 Cur.		
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XA102	AEIE	36- 72
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XA142	AEIE	36-102
XA143	AEIE	36-105
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XB408	TIIB	99- 20
XB413	TIIB	98- 21
XB434	TIIB	92- 13
XB436	TIIB	95- 95
XB437	TIIB	97- 94
XB473	TIIB	92- 14
XB474	TIIB	92- 15
XB475	TIIB	95- 96
XB476	TIIB	98- 66
XC101	AEIE	40- 13
XC121	AEIE	78- 33
XC131	AEIE	78- 35
XC141	AEIE	84- 60
XC142	AEIE	84- 61
XC155	AEIE	82- 79
XC156	AEIE	82- 80
XC161	AEIE	78- 34
XC163	AEIE	78- 36
XC171	AEIE	78- 37
XC703	AEIE	90- 97
XC713	AEIE	91- 62
XC723	AEIE	103- 15
XD5081	WESY	79- 97
XD5082	WESY	79- 98
XFT2	HIVB	28- 92
XH10	MIN	none
Repl.by H10 Obs.		
XS101	AEIE	38- 75
XS104	AEIE	38- 71
XS121	AEIE	38- 76
XT1A	BRDB	69- 61
	LUCB	
XT1B	BRDB	69- 62
	LUCB	
XT1C	BRDB	69- 63
	LUCB	
XT1D	BRDB	69- 64
	LUCB	
XT2A	BRDB	108-102
	LUCB	
XT2B	BRDB	108-103
	LUCB	
XT2C	BRDB	108-104
	LUCB	
XT2D	BRDB	108-105
	LUCB	
XT100	SPR	41- 86
XT200	SPR	42- 70
XT200A	SPR	42-109
XT300	SPR	32- 16
		120- 17
XT400	SPR	32- 34
XT515	PSI	90- 44
XT516	PSI	90- 45
XT517	PSI	90- 46
XT518	PSI	90- 47
XT519	PSI	90- 48
XT520	PSI	90- 49
ZFT12	FERB	76- 85
ZFT12A	FERB	76- 86
ZFT14	FERB	76- 87
ZFT14A	FERB	76- 88
ZFT16	FERB	76- 89
		123- 3
ZFT18	FERB	76- 90
		123- 4
ZT27	FERB	65- 48
ZT50	FERB	91- 63
ZT131	FERB	63- 40
ZT132	FERB	63- 41
ZT153	FERB	48- 34
ZT154	FERB	48- 35
ZT190	FERB	64- 47
		119- 61
ZT191	FERB	64- 48
		119- 62
ZT192	FERB	64- 49
		119- 63
ZT193	FERB	64- 50
		119- 64
ZT917	FERB	none
Repl.by 2N917 Cur.		
ZT918	FERB	59- 40
ZT929	FERB	none
Repl.by 2N929 Cur.		
ZT930	FERB	62- 88
ZT1420	FERB	69- 75
ZT1511	FERB	103- 46
ZT1512	FERB	103- 47
ZT1513	FERB	103- 48
ZT1514	FERB	103- 49
ZT1703	FERB	103- 50
ZT2015	♦FERB	108- 23
ZT2016	♦FERB	108- 24
ZT2631	FERB	90- 50
ZT2876	FERB	95- 52
ZT2887	♦FERB	97- 93
ZT3053	FERB	none
Repl.by 2N3053 Cur.		
ZT3229	FERB	none
Repl.by 2N3229 Obs.		
ZT3262	FERB	none
Repl.by 2N3262 Cur.		
ZT3375	FERB	96- 69
ZT3439	FERB	none
Repl.by 2N3439 Cur.		
ZT3512	FERB	none
Repl.by 2N3512 Cur.		
ZT3600	FERB	none
Repl.by 2N3600 Cur.		
ZT3866	FERB	none
Repl.by 2N3866 Cur.		
ZTX350	♦FERB	74- 7

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

Cur-In current D.A.T.A.BOOK
Δ-Registered with JEDEC by this manufacturer

Obs-In this book

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1	2N138B			1.6m		#J				100m	6.0uØ								FA	OV16	A	
2	GT34						25	25 Ø	25		10uØ	5.0Ø	1.0m	20	500nb		15	35p	A	TO5		
3	2N1664†		5.0M	2.6m		#J	45	40	30	200m	10u	6.0Ø	1.0m	120 Ø	900nØb	39 Ø		25pØ		TO5		
4#	EW69	.65m	30.M	1.5m			20	20				6.0Ø	1.0mØ	30					D			
5	CK766	2.0m	10.M			#A	30			200m	1.0u			45				12				
6	CK766A	2.0m	10.M			#A	30			200m	1.0u			45				12				
7	OC56	10m†		667u		*J	7.0	3.0	7.0	5.0m	1.5uØ								A	R19		
8#	2SB157	10m†	.50M	667u		*J	7.0		7.0	5.0m	10uØ	2.0	.25m	35					A	R19		
9#	2SB158	10m	.70M	667u		*J	7.0		7.0	5.0m	10uØ	.50	.25m	55					A	R19		
10#	2SB160	10m	.70M	667u		*J	7.0		7.0	5.0m	10uØ	2.0	3.7m	75 †					A	R19		
11#	2T14	10m	.70M								10u			24								
12#	2SB159	10m	.90M	667u		*J	7.0		7.0	5.0m	10uØ	.50	.25m	80					A	R19		
13	T1826	10m	25M*			#S	5.0				10u	3.0Ø	1.0mØ	300	5.0ub	60		6.0p	MA	TO24		
14	SB100	10m	45M*			*J	30	4.5		5.0m	500n	3.0Ø	500uØ	20	250nb	70	4.0	3.5p	S	TO24		
15	T1050	10m	90.M*				7.0			20m	2.0uØ											
16	OC53	10m	350MΔ	667u		*J	7.0	3.0	7.0	5.0m	1.5uØ	.50	.25m	35					A	R19		
17	OC54	10m†	550MΔ	667u		*J	7.0	3.0	7.0	5.0m	1.5uØ	.50	.25m	55					A	R19		
18	OC55	10m†	800MΔ	667u		*J	7.0	3.0	7.0	5.0m	1.5uØ	.50	.25m	80					A	R19		
19#	AC129	12m				*J	9.0		5.0	10m	12u	2.0	.25m	50	10u	4.0k	5.0		A	u16		
20#	AF128	12m	8.0M			*J	9.0		5.0	10m	12u	2.0	.25m	50					A	u16		
21	SO2	15m	10M*Δ	370u		*J	3.0	3.0		5.0m	10u	3.0Ø	500uØ	10 Δ	6.0ub	100 Ø		6.0pØ	S	TO24		
22	2N1750	15m	30M*Δ	500u		ØS	14	6.0 Ø		5.0m	2.0uØ	3.0Ø	500uØ	18 †Δ	5.0uØb	100		6.0pØ		TO24	F	
23#	2SA19	15m	50M			*J	12		.50	2.0m	10uØ	6.0	1.0m	20	300nb	45	2.0	1.5p	G	TO1		
24#	2SA20	15m	55M			*J	12		.50	2.0m	10uØ	6.0	1.0m	30	200nb	40	2.0	1.5p	G	TO1		
25#	2SA21	15m	55M			*J	12		.50	2.0m	10uØ	6.0	1.0m	50	200nb	40	2.0	1.5p	G	TO1		
26#	2SA121	15m	100M			*J	15			2.0m	8.0u	6.0	1.0m	24	.25u	50	5.0	1.3p	G	R14		
27#	2SA122	15m	100M			*J	15			2.0m	8.0u	6.0	1.0m	24	.25u	50	5.0	1.3p	G	R14		
28#	2SA123	15m	100M			*J	15			2.0m	8.0u	6.0	1.0m	24	.25u	50	5.0	1.3p	G	R14		
29#	2SA124	15m	120M			*J	15			2.0m	8.0u	6.0	1.0m	32	.25u	50	5.0	1.3p	G	R14		
30#	2SA125	15m	120M			*J	15			2.0m	2.0u	6.0	1.0m	49	.25u	40	5.0	1.3p	G	R14		
31#	2SA215	15m	120M			*J	15		.50	2.0m	5.0uØ	6.0Ø	1.0m	40				1.0p	G	TO1		
32#	2SA216	15m	120M			*J	15		.50	2.0m	5.0uØ	6.0Ø	1.0m	40				1.0p	G	TO1		
33#	2SA213	15m	140M			*J	15		.50	2.0m	5.0uØ	6.0Ø	1.0m	25				1.0p	G	TO1		
34#	2SA214	15m	140M			*J	15		.50	2.0m	5.0uØ	6.0Ø	1.0m	25				1.0p	G	TO1		
35	SB200	20m	15.M*			*J		4.5		5.0m	3.0u			7.0					S			
36	MA2	20m	20M*Δ	400u		ØJ	3.0	3.0		50m	10u	3.0Ø	1.0mØ	245	5.0ub	100		6.0pØ	MA	TO24		
37	SO1	20m	20M*Δ	500u		*J	5.0	5.0		5.0m	10u	3.0Ø	500uØ	10 Δ	6.0ub	100 Ø		6.0pØ	S	TO24		
38	SO3	20m	30M*Δ	500u		*J	5.0	5.0		5.0m	10u	3.0Ø	.50mØ	10 Δ					S	TO24		
39#	2SA154	20m	50M			*J	15		.50	4.0m	5.0uØ	6.0	1.0m	20	300nb	45	2.0	1.5p	G	TO1		
40#	2SA155	20m	55M			*J	15		.50	4.0m	5.0uØ	6.0	1.0m	30	200nb	40	2.0	1.5p	G	TO1		
41#	2SA156	20m	55M			*J	15		.50	4.0m	5.0uØ	6.0	1.0m	50	200nb	40	2.0	1.5p	G	TO1		
42#	2SA159	20m	55M			*J	15		.50		5.0uØ	6.0	1.0m	50	200nb	40	2.0	1.5p	G	TO1		
43#	2SA160	20m	55M			*J	15		.50	4.0m	5.0uØ	6.0	1.0m	60	200nb	40	2.0	1.5p	G	TO1		
44#	2SA153	20m	60M			*J	15		.50	4.0m	5.0uØ	6.0	1.0m	60	20ub	40	2.0	1.3p	G	TO1		
45#	2SA157	20m	65M			*J	15		.50	4.0m	5.0uØ	6.0	1.0m	50	200nb	40	2.0	1.5p	G	TO1		
46	2N300	20m*	95M*			#J	5.0	4.5	5.0	5.0m	3.0u	3.0	500m	18	2.0ub	65		2.8p	S	TO30	F	
47	2N299	20m*	110M*			#J	5.0	4.5	5.0	5.0m	3.0u	3.0	500m		2.0ub	65		2.8p	S	TO30	F	
48#	AT874	21m	1.5M	2.9m		#J	32	40	6.0	100m	15uØ	6.0	1.0m	90					A	TO5	A	
49	2N534	25m#		1.4m		*J	50	50		25m	15u	5.0Ø	1.0mØ	35 Δ	350nb	35			A	TO23	F	
50#	TF65	25m	700k	2.0m		ØJ	16	12	16	15m	5.0u	2.0	2.0mØ	45	1.8ub	19	4.0	25p	A	R72		
51#	TF65/30	25m	700k	2.0m		ØJ	32	24	32	15m	5.0u	1.0	2.0mØ	45	1.8ub	19	4.0	25p	A	R72		
52#	2SA39	25m	5.0M	500uØ		J	18		12	5.0m	10u	6.0	1.0m	49				11p	A	TO2		
53#	2SA37	25m	7.0M§	500uØ		J	18		12	5.0m	10u	6.0Ø	1.0m	70				11p	A	TO2		
54#	2SA38	25m	10.M	500uØ		J	18		12	5.0m	10u	6.0	1.0m	70				11p	A	TO2		
55	MA1	25m	20M*Δ	500u		ØJ	6.0	6.0		50m	10uØ	3.0Ø	1.0mØ	245	2.5ub	100		6.0pØ	MA	TO24		
56#	MA393C	25m	20M§Δ			#S	10	10	10	50m	8.0uØ	.50Ø	10mØ	4.0 Δ				6pØ	MAΔ	TO1		
57	2N3148†	25m*	25M§Δ	455u		#S	11	6.0	5.0	50m	5.0uØ	3.0Ø	.50m	80 Δ				6pØ		TO24		
58#	MA393	25m	25M§Δ			ØJ	6.0	6.0 Ø		50m	10u	3.0Ø	.50mØ	40 Δ				6pØ	MAΔ	TO1		
59#	MA393A	25m	25M§Δ			ØJ	15	10 Ø		50m	10u	3.0Ø	.50mØ	40 Δ				6pØ	MAΔ	TO1		
60#	MA393B	25m	25M§Δ			ØJ	15	14 Ø		50m	10u	3.0Ø	.50mØ	40 Δ				6pØ	MAΔ	TO1		
61#	MA393G	25m	25M§Δ			#J	6.0	7.0		50m	10u	3.0Ø	.50mØ	40 Δ				6pØ	MAΔ	TO1		
62#	MA393R†	25m	25M§Δ			#S	6.0	6.0	5.0	50m	5.0uØ	.50	50mØ	30 †Δ				6pØ	MAΔ	TO1		
63#	V15/20R	25m	30M	500u		ØJ	15			12m		4.5	1.0m	25	100u	500		3.0p	D			
64	MA28	25m	40M*Δ	417u		#S	6.0	6.0		50m	10uØ	3.0Ø	1.0mØ	20 Δ					MA	TO24		
65#	MAS20	25m	50M§Δ			ØJ		6.0	6.0	40m	10uØ	1.0Ø	20mØ	80 †Δ					MAΔ	TO1		
66#	MAS21	25m	50M§Δ			ØJ		6.0	6.0	40m	10uØ	1.0Ø	20mØ	50 †Δ					MAΔ	TO1		
67#	MAS22	25m	50M§Δ			ØJ		6.0	6.0	40m	10uØ	1.0Ø	20mØ	25 †Δ					MAΔ	TO1		
68#	MAS23	25m	50M§Δ			ØS		6.0	6.0	40m	10uØ	1.0Ø	20mØ	25 †Δ					MAΔ	TO1		
69	3N25/501	25m	200M			Ø	15			2.0m	10uØ	12	.50m					.80p	G§			
70#	GTA3	25m#	200M	500u		ØJ	15			2.0m	20u			65				800f	G			
71#	ES3110	27m*	.30M	1.3m		*J	30	15		10m	6.0uØ	5.0	1.0mØ	16 Ø				50pØ	A†	TO23		
72#	ES3111	27m*	.40M	1.3m		*J	30	15		10m	6.0uØ	5.0	1.0mØ	24 Ø				50pØ	A†	TO23		
73#	ES3112	27m*	.60M	1.3m		*J	30	15		10m	6.0uØ	5.0	1.0mØ	36 Ø				50pØ	A†	TO23		
74#	ES3113	27m*	.80M	1.3m		*J	30	15		10m	6.0uØ	5.0	1.0mØ	51 Ø	30u	1.1k	6.1	50pØ	A†	TO23		
75#	ES3114	27m*	1.0M	1.3m		*J	30	15		10m	6.0uØ	5.0	1.0mØ	75 Ø				50pØ	A†	TO23		
76#	ES3115	27m*	1.5M	1.3m		*J	30	15		10m	6.0uØ	5.0	1.0mØ	110 Ø				50pØ	A†	TO23		
77#	ES3116	27m*	2.0M	1.3m		*J	30	15		10m	6.0uØ	5.0	1.0mØ	160 Ø				50pØ	A†	TO23		
78	2N1753	30m*		769u		#S	30	18	.50	50m	15uØ	4.0Ø	.10mØ	50 †Δ				2.5pØ		TO1		
79#	NKT249	30m				*J	5.0			10m		1.5	8.0m	20					†	R65		
80#	OC622	30m	.50M			Ø		15	8.0		6.5uØ			35								
81#	OC623	30m	.60M			Ø		15	8.0		7.0uØ			50								
82#	OC624	30m	.70M			Ø		15	8.0		7.0uØ			65								
83#	AC108	30mØ	1.0M	2.0m		ØJ	20			50m	5.0u	5.0Ø	1.0mØ	30 Δ				25p	A	TO1		
84#	AC109	30mØ	1.0M	2.0m		ØJ	20			50m	5.0u	5.0Ø	1.0mØ	50 Δ				25p	A	TO1		
85#	AC110	30mØ	1.0M	2.0m		ØJ	20			50m	5.0u	5.0Ø	1.0mØ	75 Δ				25p	A	TO1		
86#	OC331	30m*	1.0M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	27	22u	1.7k	4.0		A†	R40		
87#	OC341	30m*	1.0M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	40	26u	2.6k	5.0		A†	R40		
88#	OC342	30m*	1.0M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	65	30u	3.8k	7.0		A†	R40		
89#	OC361	30m*	1.0M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	40	26u	2.6k	5.0		AØ	R40		
90#	OC362	30m*	1.0M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	65	30u	3.8k	7.0		AØ	R40		
91	R2	30m	1.0M			#S	30		30	10m	8.0uØ	1.5Ø	1.0mØ	100	30u	2.0k	8.0	20p	A	u11		
92#	OC343	30m*	1.2M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	100	34u	6.5k	11		A†	R40		
93#	OC363	30m*	1.2M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	100	34u	6.5k	11		AØ	R40		
94#	OC351	30m*	1.6M	1.0m		ØJ	5.0	5.0		30m	1.5uØ	2.0Ø	500u	160	38u	1.1k	15		A†	R40		
95	R3	30m	2.0M			#S	30		30	10m	5.0uØ	1.5Ø	1.0mØ	100	30u	2.0k	8.0	8.0p	A	u12		
96#	OC364	30m*	2.5M	1.0m		ØJ	7.0	7.0		30m	1.5uØ	2.0Ø	500u	85	32u	5.2k	9.0		AØ	R40		
97#	OC612	30m	6.0M	1.0m		ØJ	17		10		20u	6.0	500u	60		1.0k			A			
98#	OC613	30m	10M	1.0m		ØJ	17		10		20u	6.0	500u	60		400			A†			
99#	ASZ30†	30m	12MΔ	1.0		ØJ	50	30 §	.70	250m	30uØ	.55Ø	200mØ	20 †Δ				4.0pØ	D	R76		
100#	AF101	30m	14M	1.0m		ØJ	20		8.0	20m	6.0u	.50	50m		1.0m				A†	R87		
101#	26T1	30m	25.MΔ			#J	11	11 §		10m	6.0u	5.0Ø	3.0mØ	20 †Δ						R30		
102#	DAT2†	30m	25M§Δ			ØJ	8.0	6.0	5.0	50m	5.0uØ	.50Ø	50mØ	40 †Δ				6pØ	MAΔ	TO1		
103#	MA240	30m	25M§Δ			#J	8.0	6.0	6.0	10m	5.0uØ	3.0Ø	.50mØ	16 Δ				6pØ	MA	TO1		
104#	MA393E†	30m	25M§Δ			ØS	10	10	5.0	50m	10u	.50Ø	50mØ	40 †Δ				8pØ	MAΔ	TO1		
105	JAN2N129	30m	30MΔ	500u		#A	10	10	5.0	5.0m	15u	3.0	500u	10	b	90		4.0p		TO24		
106	TI380	30m	30.M				16			5.0m	10uØ	6.0	.50mØ	20 §					GD	R44		
107	TI379	30m	35.M				16			5.0m	10uØ	6.0	.50mØ	33 §					GD	R44		
108	TI381	30m	35.M				16			5.0m	10uØ	6.0	.50mØ	29 §					GD	R44		
109	TI382	30m	35.M				20			5.0m	10uØ	6.0	.50mØ	25 §					GD	R44		
110	TI383	30m	35.M				20			5.0m	10uØ	6.0	.50mØ	25 §					GD	R44		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C O A D E
1	TI384	30m	35.M			27			5.0m	10uØ	6.0	.50mØ	25 §					GD	R44	
2#	25T1	30m	40.MΔ		#J	11	11 §		10m	6.0u	5.0Ø	3.0mØ	20 †Δ						R30	
3	TI378	30m	40.M			16			5.0m	10uØ	6.0	.50mØ	34 §					GD	R44	
4#	OC614	30m	45M	1.0m	ØJ	25		.80	50m	6.0u	.50	45m						D	R87a	
5	2N33	30m	50M		*A	8.5			7.0m			25uΔ	40					PC	OV7	
6	2N248	30m	50.M		ØA	25			5.0m	10u	9.0	2.0m	20				1.2p	GD	OV8	
7#	2T201	30m	50M	769u	*J	15			5.0m	8.0u	6.0	1.0m	24	450nb	40	2.0	1.3p	G		
8#	2T204	30m	50M	769u	*J	15			5.0m	8.0u	6.0	1.0m	49	450nb	40	2.0	1.5p	G		
9#	AF105	30m	55M	1.0m	ØJ	25		.80	50m	6.0u	.50	45m						D	R87a	
10#	2T205	30m	60M	769u	*J	15			5.0m	8.0u	6.0	1.0m	49	200nb	40	2.0	1.3p	G		
11#	MDS35	30m	60M§Δ		#S	20	20 Ø	2.0		5.0uØ	6.0Ø	1.0m	40 Δ				4pØ	MDΔ	TO1	
12#	OC615	30m	80M	1.0m	ØJ	25		.80	50m	6.0u	.50	45m						D	R87a	
13#	HF100	30m	250M	769u	#J	15		.50	50m	15u								MD		
14#	HF200	30m	320M	1.3m	#J	30		.50	50m	15u	10	3.0m	8.5				1.3p	MD†		
15#	V120	30m*	550M§			25			5.0m	10uØ			40							
16	TIXM13	30m$	1.0G§Δ	1.2m	♦A	15	7.0	.30	30m	6.0uØ	5.0Ø	3.0mØ	15 †Δ				1.4p$	PEØ	X55	A
17	TIXM108	30m$	1.0G§Δ	1.2m	♦S	15	7.0	.30	30m	6.0uØ	5.0Ø	3.0mØ	15 †Δ				1pØ$	PE†Ø	u41	C
18	TIXM107	30m$	1.5G§Δ	1.2m	♦S	15	7.0	.30	30m	6.0uØ	5.0Ø	3.0mØ	15 †Δ				1pØ$	PE†Ø	u41	C
19	2N82	35m§			#A	20			15m	16u				80u	2.5k					
20	2N1398	35m							5.0m	10u			2.4					ME	R34	
21	2N1399	35m							5.0m	10u			2.4					ME	R34	
22	2N1400	35m							5.0m	10u			1.6					ME	R34	
23	2N1401	35m							5.0m	10u			2.1					ME	R34	
24	2N1401A	35m							5.0m	10u			2.1					ME	R34	
25	2N1402	35m							5.0m	10u			1.7					ME	R34	
26#	2S96	35m			#S	20			10m	20u			30				1.7			
27#	2S97	35m			#S	20			10m	20u			30				1.7			
28#	2S98	35m			#S	20			10m	20u			30				1.7			
29	2N79	35m	780k	3.3m	ØA	30			50m	10uØ	6.0Ø	1.0mØ		20u	1.7k					
30#	2S31	35m	5.0M		#S	12			10m	10u			50				9.5			
31#	2S30	35m	10.M		#S	12			10m	10u			75				9.5			
32	2N267	35m§	132MØ		ØA	35		1.0	10m	16uØ			45 §				1.7p	A		
33#	AFY34	35mØ	3.5G*	6.3m	#J	40		.30	20m		12Ø	2.0mØ	10 †Δ					EM		
34#	ES3120	36m*	.30M	1.8m	*J	30	15		10m	6.0uØ	5.0	1.0mØ	16 Ø				50pØ	A†	TO5	
35#	ES3121	36m*	.40M	1.8m	*J	30	15		10m	6.0uØ	5.0	1.0mØ	24 Ø				50pØ	A†	TO5	
36#	ES3122	36m*	.60M	1.8m	*J	30	15		10m	6.0uØ	5.0	1.0mØ	36 Ø				50pØ	A†	TO5	
37#	ES3123	36m*	.80M	1.8m	*J	30	15		10m	6.0uØ	5.0	1.0mØ	51 Ø	30u	1.1k	6.1	50pØ	A†	TO5	
38#	ES3124	36m*	1.0M	1.8m	*J	30	15		10m	6.0uØ	5.0	1.0mØ	75 Ø				50pØ	A†	TO5	
39#	ES3125	36m*	1.5M	1.8m	*J	30	15		10m	6.0uØ	5.0	1.0mØ	110 Ø				50pØ	A†	TO5	
40#	ES3126	36m*	2.0M	1.8m	*J	30	15		10m	6.0uØ	5.0	1.0mØ	160 Ø				50pØ	A†	TO5	
41#	2SB23	40m			ØJ	15		5.0	10m	10u	6.0Ø	1.0m						A	TO1	
42#	2SB24	40m			ØJ	15		5.0	10m	10u	6.0Ø	1.0m						A	R69	
43#	2SB91	40m		769u	ØJ	18		12	5.0m	14u	6.0	1.0m	70	200nb	30	2.5		A	TO2	
44#	2SB97	40m		769u	ØJ	18		12	5.0m	14u	6.0	1.0m	70					AØ	TO2	
45	CK891	40m†			*A	12			50m	5.5u	1.5	.50m	160					FA†	u11	
46	CK892	40m†			*A	12			50m	5.5u	1.5	.50m	160					FAØ	u11	
47#	AC164	40m	10k	833u	ØJ	10	10	.50	30m	2.0uØ	.50Ø	200u	40 Δ					A†	u20	
48#	2SB90	40m	1.0M	3.0m	ØJ	25		12	50m	14u	6.0	1.0m	150	200nb	30	2.5		A	TO2	
49#	2SB321	40m	6.0M	769u	ØJ	12		12	50m	4.0uØ	1.5	500u	100	20u	4.0k	6.0	12p	AØ	R68	
50#	2SB322	40m	6.0M	769u	ØJ	12		12	50m	4.0uØ	1.5Ø	500u	50	19u	3.0k	5.0	12p	A	R68	
51#	2SB323	40m	6.0M	769u	ØJ	12		12	50m	4.0uØ	1.5Ø	500u	100	20u	4.0k	6.0	12p	A	R68	
52#	2SB302	40m	12.M			10		5.0	2.0m	6.0u	6.0	1.0m	80	27u	4.5k	4.0	10p	A	TO1	
53	JAN2N300	40m	85M*Δ	1.1m	#S	7.0	4.5	5.0	20m	3.0uØ	3.0	500u	10 Δ	5.0uØb	90 Ø		4.0pØ	Ø	TO24	
54	2N623	40m	90.M	1.0m	*J	30		1.0		10u	6.0Ø	2.0mØ	35				3.5p	DΔ		
55	T1905†	40m	120M§	667u	#S	12	10 Ø	2.0	50m	100u	.50Ø	10mØ	50				5pØ	MA	TO9	
56#	2SA260	40m	200M§		#J	20		.40	5.0m	15u	6.0Ø	2.0mØ	10				1.5p	ME	TO17	
57#	2SA261	40m	400M§		#J	20		.40	5.0m	15u	6.0Ø	2.0mØ	10				1.5p	ME	TO17	
58#	2SA262	40m	400M§		#J	20		.40	5.0m	15u	6.0Ø	2.0mØ	10				1.5p	ME	TO17	
59#	2SA263	40m	400M§		#J	20		.40	5.0m	15u	6.0Ø	2.0mØ	10				1.5p	ME	TO17	
60#	2SA264	40m	600M§		#J	20		.40	5.0m	15u	6.0Ø	2.0mØ	10				1.5p	ME	TO17	
61#	2SA265	40m	600M§		#J	20		.40	5.0m	15u	6.0Ø	2.0mØ	10				1.5p	ME	TO17	
62	TIXM104	40m	1.4G§Δ	2.6m	#S	12	10	.30	20m	6.0uØ	9.0Ø	2.0mØ	10 †Δ				1.0p$Ø	PLØ	X60	CØ
63#	2SA448	40m	1.6G§		ØJ	15		.50	5.0m	10uØ	3.0Ø	3.0mØ	40 †				.3pØ	PL	TO17	
64	TIXM103	40m	1.8G§Δ	2.6m	#S	12	10	.30	20m	6.0uØ	9.0Ø	2.0mØ	10 †Δ				1.0p$Ø	PLØ	X60	CØ
65	TIXM105	40mΔ	2.2G§Δ	2.6m	#S	12	10	.30	20m	6.0uØ	9.0Ø	2.0mØ	10 †Δ				1pØ$	PEØ	u26	EØ
66	TIXM106	40mΔ	2.2G§Δ	2.6m	#S	12	10	.30	20m	6.0uØ	9.0Ø	2.0mØ	10 †Δ				1pØ$	PEØ†	u41	C
67#	OC330	45m	800k	1.5m	ØJ		15		35m		5.0Ø	1.0m	24	25u	1.0k	6.0		A	R39	
68#	OC360	45m	800k	1.5m	ØJ		15		35m		5.0Ø	1.0m	70	30u	1.2k	7.5		A	R39	
69#	OC340	45m	1.1M	1.5m	ØJ		15		35m		5.0Ø	1.0m	70	45u	1.8k	11		A	R39	
70#	OC350	45m	2.0M	1.5m	ØJ		8.0		35m		5.0Ø	1.0m	150	50u	4.5k	13		A	R39	
71	2N38A	50m				20			8.0m	12uØ	3.0	.50mØ	18							
72	2N41	50m			*A	25			15m	10uØ			40 §							
73	2N46	50m			*A	25		15	15m	10uØ	6.0Ø	1.0m	40							
74	2N62	50m				35			20m	10uØ							50p	A	TO24	
75	2N81	50m§			#A		20		15m	16u	6.0Ø	1.0mΔ	20 Δ	80u	2.5k			F		
76#	2SB184	50m		833u	#J	12		2.5	20m	12u	2.0Ø	5.0mØ	100					PA	TO2	
77#	2SB349	50m				20				20u	1.5Ø	10mØ	150					A	TO1	
78	1032	50m			*A	25			40m	10uØ			12				40			
79	1033	50m			*A	25			40m	10uØ			24				40			
80	1034	50m			*A	25			40m	10uØ			41				40			
81	1035	50m			*A	25			40m	10uØ			61				40			
82	1036	50m			*A	25			40m	10uØ			86				40			
83	1320	50m			*A	25			40m	10uØ			12				40			
84	1330	50m			*A	25			40m	10uØ			24				40			
85	1340	50m			*A	25			40m	10uØ			41				40			
86	1350	50m			*A	25			40m	10uØ			61				40			
87	1360	50m			*A	25			40m	10uØ			86				40			
88#	AC160A	50m		1.0m	ØJ	15	10	10	10m	2.0u	4.5Ø	300uØ	35	14u	7.0k	6.5	9.0p	A	R60	
89#	AC160B	50m		1.0m	ØJ	15	10	10	10m	2.0u	4.5Ø	300uØ	100	14u	7.0k	6.5	9.0p	A	R60	
90#	VB709	50m			*J	50			50m	10uØ	10	.50m	100					A		
91#	XB121	50m			*A	105		50	100m	14u	.35Ø	5.0mØ	60 †					AΔ	TO5	
92#	XFT2	50m					6.0			150u		.50m	50							
93#	OC601	50m	.40M		†A	50			20m	10uØ	4.5	1.0m	15							
94#	2SB68	50m	.50M	833u	#	105		50	100m		.35	5.0m	60 †						TO5	
95#	2SB150	50m	500k	1.0m	ØJ	105	40	50	40m	50uØ	1.0	20mØ	35 †				20pØ	A	TO1	A
96#	TS1	50m	.50M		*A					10uØ	1.5Ø	2.0m	10					A		
97#	TS2	50m	.50M		*A					10uØ	1.5Ø	2.0m	30					A		
98#	TS3	50m	.50M		*A						1.5Ø	2.0m	50					A		
99#	2S32	50m	.60M		#S	20			10m	15u			27							
100#	2S33	50m	.60M		#S	20			50m	15u			70							
101	CTP1320	50m	600k	1.8m	Ø	25			40m		6.0	1.0mØ	13				35p	A		
102	OC32	50m	.60M			25			10m	6.0uØ	5.0	1.0m	13					A		
103	2N591/5	50m	700k	2.9m	ØA	32			40m	7.0u	12Ø	2.0mØ	70					A	TO5	
104#	2SB183	50m	.70M	833u	#	12		10	20m	10u	4.0	.50m	65	11.u	3.9k	3.8		Ø	TO2	
105#	2T11	50m	.70M		*A	25			10m	20uØ			12							
106#	2T12	50m	.70M		*A	25			10m	10uØ			19							
107#	2T13	50m	.70M		*A	25			10m	10uØ			32							
108#	VB701	50m	.70M		*J	30			50m	9.0uØ	4.0	1.0m	80					A		
109#	VB704	50m	.70M		*J	30			50m	10uØ	6.0	.70m	50					A		
110	2N47	50m	.80M		*A	35			20m	5.0uØ			40					†		

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1	2N48	50m	.80M		*A	35			20m	5.0uØ			32					†			
2	2N49	50m	.80M		*A	35			20m	5.0uØ			40					†			
3	CTP1330	50m	800k	1.8m	Ø	25			40m	4.0uØ	6.0	1.0mØ	25				33p	A			
4	OC33	50m	.80M			25			10m	6.0uØ	5.0	1.0m	24					A			
5	2N76	50m	1.0M		*A	20			10m	5.0uØ			19				40				
6	CTP1340	50m	1.0M	1.8m	Ø	25			40m	4.0uØ	6.0	1.0mØ	45				30p	A			
7#	OC602	50m	1.0M	1.6m	ØJ	20		10	50m	20u	1.0	2.0m	40	750u	750	5.5		At	R8		
8	OC34	50m	1.1M			25			10m	6.0uØ	5.0	1.0m	39					A			
9#	OC603	50m	1.1M	1.6m	ØJ	20		10	50m	20u	1.0	2.0m	50	86u	900	6.0		AØ	R9		
10	CTP1350	50m	1.2M	1.8m	Ø	25			40m	4.0uØ	6.0	1.0mØ	65				28p	A			
11#	OC604	50m	1.2M	1.6m	ØJ	30		10	50m	20u	1.0	2.0m	65	100u	1.2k	6.5		At	R9		
12	CTP1360	50m	1.5M	1.8m	Ø	25			40m	4.0uØ	6.0	1.0mØ	85				25p	A			
13#	2SB73	50m	2.0M			10		10	2.0m	7.0u	4.0Ø	.50m	80	12u	4.3k	3.4		A	TO1		
14	2N32	50m	2.7M		†A	40		40	8.0m									PC			
15	2N32A	50m	2.7M		*A	40		40	8.0m				21 §					PC△			
16	2N50	50m	3.0M		*A	15			1.0m				.67					PC△			
17	2N1264	50m	3.0M	1.0m	ØJ	20		.10	10m	50u	9.0Ø	1.0m	25				4.0p	D	TO7		
18	1390	50m	3.0M△		*A	10				10uØ							13				
19	CTP1390	50m	3.5M			10				2.0uØ	6.0	1.0mØ					16p	A			
20#	OC41	50m*	4.0M§		ØJ	16	15		50m			50m	35					△	R8		
21#	35T1	50m	4.5M		#S	20	6.0 §		50m	6.0u	5.0	1.0m	20	b		90p	14p		R26		
22#	2SA182	50m	5.0M		ØJ	15		15	10m	10u	6.0	1.0m	27				13p	A			
23	1400	50m	5.0M△		*A	10				10uØ							13				
24#	36T1	50m	6.5M		#S	10	6.0 §		50m	6.0u	5.0	1.0m	40	b		70p	14p		R26		
25	CTP1400	50m	7.0M			10				2.0uØ	6.0	1.0mØ					14p	A			
26#	OC42	50m*	7.0M§		ØJ	16	15		50m			50m	70					△	R8		
27#	2SA181	50m	8.0M		ØJ	15		15	10m	10u	6.0	1.0m	47				13p	A	TO1		
28#	37T1	50m	10M		#S	10	6.0 §		50m	6.0u	5.0	1.0m	60	b		70p	14p		R26		
29	1410	50m	10.M△		*A	10				10uØ							13				
30	CTP1410	50m	10.M			10				2.0uØ	6.0	1.0mØ					13p	A			
31#	GFT43A	50m	10M	1.0m	ØJ	15		.80	10m	10u	6.0	1.0m	35	30u	30u		3.5p	MD	R36		
32#	GFT44/15E	50m	10.M	1.0m		15												D			
33#	2SA180	50m	12.M		ØJ	15		15	10m	10u	6.0	1.0m	70				13p	A	TO1		
34#	2SA183	50m	16.M		ØJ	15		15	10m	10u	6.0	1.0m	30				13p	A	TO1		
35	2N72	50m	20.M		*A	40		50	8.0m	1.6mØ											
36#	2SA338	50m	20M	1.0m	ØJ	20		.50	5.0m	16uØ	6.0	1.0m	30				2.5p	D	R18		
37#	2SA218	50m	25.M		ØJ	20		.50	10m	12u	6.0	1.0m	48				2.5p	D	TO44		
38	GT5148	50m	25.M	1.2m		3.0		1.0		10u	.30Ø	1.0m	25 †				6.0p	MA	TO24		
39#	2SA339	50m	30M	1.0m	ØJ	20		.50	5.0m	16uØ	6.0	1.0m	60				2.5p	D	R18		
40#	ASY24	50m	30.M		ØJ	50		.70	250m	20u	6.0	1.0m	100					D	R60		
41#	GFT43B	50m	30M	1.0m	ØJ	15		.80	10m	10u	6.0	1.0m	70	30u	30u		3.5p	MD△	R36		
42#	2SA323	50m	35M	2.0m	ØJ	20		.50	10m	12u	6.0	1.0m	37db at-1.5MHz				3.0p	D	TO44		
43#	2SA285	50m	40.M		ØJ	18		.50	5.0m	15u	6.0Ø	1.0m	70				2.0p	D	TO44		
44#	GFT43	50m	40M	1.0m	ØJ	15		.80	10m	10u		1.0m	50				3.5p		R36		
45#	2SA220	50m	50M	2.0m	ØJ	20		.50	10m	12u	6.0Ø	1.0m	150				3.0p	D	TO44		
46#	2SA286	50m	50.M		ØJ	18		.50	5.0m	15u	6.0Ø	1.0m	70				2.0p	D	TO44		
47	2N2180	50m	60M§△	670u	#S	15	6.0	15	50m	1.0uØ	3.0Ø	500u	120 △				6.0pØ		TO24	F	
48#	2SA287	50m	60.M		ØJ	18		.50	5.0m	15u	6.0Ø	1.0m	70				2.0p	D	TO44		
49#	2SA324	50m	60M	2.0m	ØJ	20		.50	10m	12u	6.0	1.0m	24db at-10.7MHz				3.0p	D	TO44		
50#	OC169	50m	70M	1.6m	ØJ	20		.50	10m	13u	6.0	1.0m	100				7.0p	ADØ	TO7		
51#	2SA224	50m	80.M		ØJ	20		.50	10m	12u	6.0	1.0m	80				1.5p	D	TO44		
52#	2SA227	50m	80M	2.0m	ØJ	20		.50	10m	12u							3.0p	D	TO44		
53#	GFT42B	50m	80.M	1.0m		15												D			
54#	AF132	50m	90M	1.0m	ØJ	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	75					ADØ	R38		
55#	GFT42A	50m	90.M	1.0m		15												D			
56#	2SA226	50m	95.M		ØJ	20		.50	10m	12u	6.0	1.0m	120				1.5p	D	TO44		
57	2N3770	50m	100M§△	667u	#S	10	6.0	.50	50m	10uØ	6.0Ø	1.0m	10 △				3pØ		TO18		
58#	2SA225	50m	100M	2.0m	ØJ	20		.50	10m	12u							3.0p	D	TO44		
59#	AF131	50m	100M	1.0m	ØJ	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	75					ADØ	R38		
60#	AF133	50m	100M	1.0m	ØJ	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	35					ADØ△	R38		
61	GT5149	50m	100M	1.2m		10		1.0		10u	.30Ø	10m	25 †				3.0p	MA	TO24		
62#	AF129	50m	150M	1.0m	ØJ	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	50					ADt	R38		
63#	AF130	50m	150M	1.0m	ØJ	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0m	60					ADt	R38		
64#	GFT41	50m	150M	1.0m		8.0												D			
65#	AF102	50m*	180M§	1.6m	ØJ	25	25		10m	50u	12Ø	1.0m	20 △				1.8p	ADØ	TO7		
66#	2SA241	50m	230M§△	1.0m	ØJ		20	.40	5.0m	13uØ	6.0	1.0m	100				1.0p	AD	TO7		
67#	MDS38†	50m	280M§△		#S	15	8.0	2.0	50m	5.0uØ	.50Ø	10mØ	20 †△				4.0pØ	MD△	TO18	Ø	
68#	2SA242	50m	290M§△	1.0m	ØJ		20	.40	5.0m	13uØ	6.0	1.0m	100				1.0p	AD	TO7		
69#	2SA420	50m	300M§△	588u	#J	20	20 Ø	.50	5.0m	10uØ	6.0Ø	2.0m	20				1.5pØ	ME	TO17		
70#	2SA243	50m	350M§△	1.0m	ØJ		20	.40	5.0m	13uØ	6.0	1.0m	100				1.0p	AD	TO7		
71#	2SA419	50m	350M§△	588u	#J	20	20 Ø	.50	5.0m	10uØ	6.0Ø	2.0m	20				1.5pØ	ME	TO17		
72#	2SA421	50m	400M§△	588u	#J	20	20 Ø	.40	5.0m	10uØ	12Ø	2.0m	25				1.2pØ	ME	TP17		
73#	2SA161	50m	500M§		#J	20			15m	5.0u	6.0	20m	13				1.2p	ME	TO18		
74#	2SA162	50m	500M§		#J	20			15m	5.0u	6.0	20m	25				1.2p	ME	TO18		
75#	2SA163	50m	500M§		#J	20			15m	5.0u	6.0	20m	66				1.2p	ME	TO18		
76#	2SA164	50m	500M§		#J	20			15m	5.0u	6.0	20m	13				1.2p	ME	TO18		
77#	2SA165	50m	500M§		#J	20			15m	5.0u	6.0	20m	25				1.2p	ME	TO18		
78#	2SA166	50m	500M§		#J	20			15m	5.0u	6.0	20m	66				1.2p	ME	TO18		
79#	2SA422	50m	500M§△	588u	#J	20	20 Ø	.40	5.0m	10uØ	12Ø	2.0m	25				1.2pØ	ME	TO17		
80#	2SA28	55m		1.1m	ØJ	18		.50	5.0m		6.0	1.0m	30					A	TO44		
81#	2SA29	55m			ØJ	18		.50	5.0m	8.0uØ	6.0Ø	1.0m	60 Ø				6pØ	D	TO44		
82#	2SA79	55m	6.0M	1.1m	ØJ	18		12	200m	12u	1.5	100m	70					AA			
83#	2SA50†	55m	9.0M△	1.1m	ØJ	18	18 §	12	24m	15u	1.0Ø	24mØ	70 †				10pØ	A	TO1	A	
84#	2SA468	55m	30.M§	1.1m	#J	18		.50	10m	12uØ	6.0Ø	1.0m	70				2.5p	D	TO1		
85#	2SA469	55m	30.M§	1.1m	#J	18		.50	10m	12uØ	6.0Ø	1.0m	50				2.0p	D	TO1		
86#	2SA470	55m	30.M§	1.1m	#J	18		.50	10m	12uØ	6.0Ø	1.0m	75				2.0p	D	TO1		
87#	2SA471	55m	30.M§	1.1m	#J	18		.50	10m	12uØ	6.0Ø	1.0m	50				2.0p	D	TO1		
88#	2SA472	55m	30.M§	1.1m	#J	18		.50	10m	12uØ	6.0Ø	1.0m	80				2.0p	D	TO1		
89#	2SA73	55m	35M	1.1m	ØJ	18		.50	5.0m	10u	6.0	1.0m	49				1.9p	D	TO44		
90#	2SA236	55m	35M	1.1m	ØJ	18		.50	5.0m	12u	6.0	1.0m	50				1.7p	D	TO44		
91#	2SA237	55m	35M	1.1m	ØJ	18		.50	5.0m	12u	6.0	1.0m	50				1.7p	D	TO44		
92#	2SA72	55m	40M	1.1m	ØJ	18		.50	5.0m	10u	6.0	1.0m	49				1.9p	D	TO44		
93#	2SA93	55m	45M	1.1m	ØJ	18		.50	5.0m	10u	4.5	1.0m	49				2.0p	D	TO44		
94#	2SA433	55m	45.M			18		.50	5.0m	8.0uØ	6.1	1.0m	60				3.5pØ	D	TO44		
95#	2SA457	55m	45M	1.1m	ØJ	18		.50	20m	10uØ	6.0Ø	1.0m	200				5.0pØ	D	TO44		
96#	2SA518	55m	45.M	909u	#J	18		.50	10m	10u							1.6p	D	TO1	A	
97#	2SA92	55m	50M	1.1m	ØJ	18		.50	5.0m	10u	4.5	1.0m	70				2.0p	D	TO44		
98#	2SA60	55m	55M	1.1m	ØJ	18		.50	5.0m	10u	6.0	1.0m	70				1.9p	D	TO44		
99#	2SA517	55m	55.M	909u	#J	18		.50	10m	10u							1.6p	D	TO1	A	
100#	2SA59	55m	65M	1.1m	ØJ	18		.50	5.0m	10u	9.0	1.0m	70				1.7p	D			
101#	2SA477	55m	70M§	1.1m	#J	18		.50	10m	12uØ	6.0Ø	1.0m	70				1.7p	D	TO1		
102#	2SA58	55m	75M	1.1m	ØJ	18		.50	5.0m	10u	9.0	1.0m	80				1.7p	D	TO44		
103#	2SA57	55m	85M	1.1	ØJ	18		12	5.0m	10u	9.0	1.0m	80				2.5p	D	TO44		
104#	2SA175	55m	85M	1.1m	ØJ	18		.50	5.0m	10u	9.0	1.0m	80				1.7p	D	TO44		
105#	2SA77	55m	110M	1.1m	ØJ	18		.50	5.0m	10u	6.0	1.0m	70				1.7p	D	TO44		
106#	2SA76	55m	130M	1.1m	ØJ	18		.50	5.0m	10u	6.0	1.0m	70				1.7p	D	TO44		
107#	2SA476	55m	130M	1.1m	#J	18		.50	10m	12uØ	6.0Ø	1.0m	70				1.7p	D	TO1		
108#	AC150	60m		2.0m	ØJ	30	18 *	12	50m	15u	6.0Ø	2.0mØ	100 *	52m	2.0u	5.5	21p	AØ	R48a	A	
109#	AC169	60m		5.0m	*J	2.0	2.0	2.0	30m	7.0uØ								A	TO1		
110	MD420	60m			♦J	20			50m	10u			10					Ø	TO12		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1#	MD501†	60m			#S	15	12 Ø	2.0	50m	5.0uØ	.50Ø	10mØ	20 †Δ				5pØ	MDΔ	TO1		
2#	MD501B†	60m			#S	15	12 Ø	2.0	50m	5.0uØ	.50Ø	10mØ	20 †Δ				3pØ	MDΔ	TO1		
3#	MDS34†	60m			#S	20	15 Ø	2.0	50m	3.0uØ	.50Ø	40mØ	20 †Δ				3pØ	MDΔ	TO1		
4	T2896	60m			#S	20	20 Ø	.50		100u	10Ø	2.0mØ	10 †Δ					MD†	TO12		
5#	989T1	60m	800k		*A	24	9.0		50m	40u	5.0	1.0m	24	1.0ub	29	4.0	35p		R26		
6#	987T1	60m	1.0M		*A	24		5.0	200m	40u	1.0Ø	100mØ	36 Δ		2.0		35p		R26		
7#	990T1	60m	1.0M		*A	24	9.0		50m	40u	5.0	1.0m	36	800nb	29	4.0	35p		R26		
8#	988T1	60m	1.2M		*A	24		5.0	200m	40u	1.0Ø	100mØ	54 Δ		2.6		35p		R26		
9#	991T1	60m	1.2M		*A	24	9.0		50m	40u	5.0	1.0m	54	600nb	29	4.0	35p		R26		
10#	941T1	60m	1.5M		*A	24		5.0	200m	40u	1.0Ø	100mØ	73 Δ		4.0		35p		R26		
11#	965T1	60m	1.5M		*A	24	9.0		50m	40u	5.0Ø	1.0m	110	500nb	29	4.0	35p		R26		
12#	992T1	60m	1.5M		*A	24	9.0		50m	40u	5.0Ø	1.0m	75	500nb	29	4.0	35p		R26		
13	T2878	60m	2.4M	769u	#S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	33 †				1.5p	ME	TO12		
14#	2NJ51	60m	5.0M		*A	12			10m	10u	9.0	1.0mØ	50				37p	AΔ	R18		
15#	2SB257	60m	5.0M	1.2m	ØJ	18		12	5.0m	3.0uØ	6.0Ø	1.0mØ	125	45	2.5k	5.0	13p	AØ	TO1		
16	T2364	60m	5.0M§	769u	#S	20	20 Ø	.50		10uØ	10Ø	2.0mØ	10 †Δ					MDØ	R34		
17#	2NJ50	60m	10.M		*A	12			10m	10u	9.0	.60mØ	75				9.5p	A	R18		
18#	2SA51	60m	14M	1.2m	ØJ	18		12	5.0m	15u	6.0	1.0m	70				11p	A	TO1		
19	2N2083	60m#	30MΔ§	2.0m	#S	30		.50	10m		6.0Ø	1.0m	25 †Δ				3.2pØ		TO7		H
20#	AF137	60m	35.M		ØJ	25	15	.70		10u	6.0Ø	1.0mØ	60				3.4p	D	R60		
21#	2SA313	60m	40M	1.2m	ØJ	18		.50	20m	6.0uØ	6.0Ø	1.0m	60				2.0p	D	TO5		
22#	2SA314	60m	40M	1.2m	ØJ	18		.50	20m	6.0uØ	6.0Ø	1.0m	80				2.0p	D	TO5		
23#	AF136	60m	40.M		ØJ	25	15	.70		10u	6.0Ø	1.0mØ	80				3.5p	D	R60		
24#	AF138	60m	40.M		ØJ	25	15	.70		3.0u	6.0Ø	1.0mØ	100				3.3p	D	R60		
25	2N2059	60m	50.M§	1.3m	#J	10		2.0	50m	5.0uØ	.50Ø	10mØ	35 †				1.5p	MDΔ	TO1		
26#	AF135	60m	50.M		ØJ	25	15	.70		10u	6.0Ø	1.0mØ	100				2.8p	D	R60		
27#	2SA315	60m	55M	1.2m	ØJ	18		.50	20m	6.0uØ	6.0Ø	1.0m	100				2.0p	D	TO5		
28#	AF134	60m	55.M		ØJ	25	15	.70		10u	6.0Ø	1.0mØ	110				2.8p	D	R60		
29#	MDS32	60m	60M§		#S	20		1.0	50m	5.0uØ	2.0Ø	10mØ	50 †Δ					MDΔ	TO1		
30#	2SA316	60m	75.M	1.2m	#J	18		.50	20m	6.0uØ	6.0Ø	1.0m	120				2.0p	D	TO5		
31	T2788	60m	90.M§	769u	#S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	10 †Δ					MDØ	TO12		
32#	2SA349	60m	100M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	10				1.5p	ME	TO17		
33#	MDS31†	60m	100M§Δ		#S	9.0	8.0	1.0	50m	5.0uØ	.30Ø	50mØ	20 †Δ					MDΔ	TO1		
34#	MDS36†	60m	100M§Δ		#S	20	20 Ø	2.0	100m	5.0uØ	.30Ø	10mØ	30 †Δ				3.0pØ	MDΔ	TO18	Ø	
35#	MDS40	60m	100M§Δ		#J	20	20 Ø	2.0	50m	5.0uØ	2.0Ø	10mØ	35 †Δ				4pØ	MD	TO1		
36	T2946	60m	150M§	769u	#S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	10 †Δ					MDØ	TO12		
37	2N1500/18†	60m	175M§	769u	#S	15		2.0	50m	1.5u	.50Ø	10mØ	70 †				1.5p	MD	TO18		
38#	2SA348	60m	200M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	10				1.5p	ME	TO17		
39#	2SA345	60m	250M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	30				1.2p	ME	TO17		
40#	2SA346	60m	250M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	30				1.2p	ME	TO17		
41#	2SA347	60m	250M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	30				1.2p	ME	TO17		
42#	MDS33C†	60m	250M§Δ		#S	15	10	2.0	50m	10uØ	5.0Ø	10mØ	6.3 Δ				4pØ	MDΔ	TO1		
43#	MDS33D	60m	250M§Δ		#S	15	10	2.0	50m	10uØ	.50Ø	10mØ	40 †Δ				4pØ	MDΔ	TO1		
44#	MDS39	60m	250M§Δ		#S	15	10	2.0	50m	10uØ	.50Ø	10mØ	30 †Δ				4.0pØ	MDΔ	TO18	Ø	
45#	MDS33	60m	300M§Δ		#S	15	10	2.0	50m	3.0uØ	.50Ø	10mØ	30 †Δ				4pØ	MDΔ	TO1		
46#	MDS33A	60m	300M§Δ		#S	7.5	5.0	2.0	50m	3.0uØ	.50Ø	10mØ	30 †Δ				4pØ	MDΔ	TO1		
47	T2945	60m	300M§Δ		#S	20	20 Ø	.50	50m	10uØ	10Ø	2.0mØ	20 Δ				1.5pØ	MDØ	TO12		
48	2N846†	60m	320M§Δ	800u	#S	15	15 Ø			3.0uØ	.50Ø	10mØ	25 †Δ				2.5pØ		TO18	A	
49#	2SA440A	60m	350M§		#J	20		5.0	5.0m	30u	6.0Ø	2.0mØ	50				1.5p	ME	R146	B	
50#	2SA436	60m	400M			20		.50	10m	30u	6.0	3.0m	10 Δ				1.2p	ME	TO18		
51#	2SA437	60m	400M			20		.50	10m	30u	6.0	3.0m	10 Δ				1.2p	ME	TO18		
52#	2SA438	60m	400M			20		.50	10m	30u	6.0	3.0m	10 Δ				1.2p	ME	TO18		
53#	2SA460	60m	400M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	30				.90p	ME	L41		
54#	2SA461	60m	400M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	30				.90p	ME	L41		
55#	2SA462	60m	400M§	1.0m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	30				.90p	ME	L41		
56	2N2966	60m	500M§Δ	500u	#S	20	20	.50	100m		10Ø	3.0mØ	8.0 †Δ				1.5pØ				
57#	2SA453	60m	600M§		#J	22			10m	5.0uØ	3.0Ø	1.0mØ	6.0 †				.6pØ	PL	TO18		
58#	2SA454	60m	600M§		#J	22			10m	5.0uØ	3.0Ø	1.0mØ	12 †				.6pØ	PL	TO18		
59#	2SA455	60m	600M§		#J	22			10m	5.0uØ	3.0Ø	1.0mØ	24 †				.6pØ	PL	TO18		
60#	2SA456	60m	600M§		#J	22			10m	5.0uØ	3.0Ø	1.0mØ	48 †				.6pØ	PL	TO18		
61#	AFY41	60m*	650M§	769u	#J	30	25	.30	10m	.40uØ	5.0Ø	5.0mØ	90 †				1.5p		TO72		
62#	2SA464	60m	850M§	1.0m	#J	15	10	.30	10m	10u	6.0Ø	3.0m	30				1pØ	ME	L41		
63#	GFT45	63m	3.0MΔ	1.2m	ØJ	15		10		40u	6.0	1.0m	40				8.0p	A			
64#	GFT45/30	63m	3.0MΔ	1.2m	ØJ	30		10		40u	6.0	1.0m	40					A			
65#	GTA1	63m	3.0MΔ	1.2m	ØJ	15		10		20u	6.0	500u	40				8.0p	A			
66#	GFT44	63m	7.0MΔ	1.2m	ØJ	15		10		80u	6.0	1.0m	60				8.0p	A			
67#	GFT44/30	63m	7.0MΔ	1.2m	ØJ	30		10		80u	6.0	1.0m	60					A			
68#	GTA2	63m	7.0MΔ	1.3m	*J	15		10		20u	6.0	.50m	100				8.0p	A			
69#	2SA340	63m	70M	1.2m	ØJ	20		.50	10m	13uØ	6.0	1.0m	100				1.5p	AD	TO72	G	
70	OC320	65m	600k	1.3m	Ø	20			10m	6.0uØ	5.0	1.0m	13					A			
71#	2SA277	65m	3.5MΔ	1.2m	ØJ	18	16 Ø	12	40m	3.0uØ	1.0Ø	24mØ	50 †				10p	AΔ	TO5		
72#	2SA304	65m	4.5M	1.2m	ØJ	18		12	40m	4.0uØ	6.0	1.0m	70				11p	A	TO9		
73#	OC390	65m*	4.5M	2.2m	ØJ	15			40m	10uØ	5.0Ø	500u	40	33u	800	16	12p	A	R42		
74#	2SB290	65m	5.0M	1.2m	ØJ	18		12	40m	4.0uØ	6.0Ø	1.0m	125	45u	2.5k	5.0	9.5p	AØ	TO5	A	
75#	OC400	65m*	7.0M	2.1m	ØJ	15			40m	10uØ	5.0Ø	500u	75	40u	1.5k	30	12p	A	R42		
76#	2SA305	65m	10M	1.2m	ØJ	18		12	40m	4.0uØ	6.0Ø	1.0m	70				11p	A	TO5		
77#	2SA278	65m	11MΔ	1.2m	ØJ	18	16 Ø	12	40m	3.0u	1.0Ø	24mØ	100 †				10p	AΔ	TO5		
78#	OC410	65m*	12M	2.1m	ØJ	15			40m	10uØ	5.0Ø	500u	110	50u	2.5k	50	12p	A	R42		
79#	AF111	65m	50M	2.0m	ØJ	20		.50	10m								2.0p	D			
80#	AF112	65m	60M	2.0m	ØJ	20		.50	10m								2.0p	D			
81#	AF113	65m	80M	2.0m	ØJ	20		.50	10m								2.0p	D			
82#	NKT33	66m	3.0M	1.3m	ØJ	10	10 §	12	10m	3.0uØ	6.0	1.0m	75	600nb			10p		R65		
83#	NKT43	66m	3.0MΔ	1.3m	ØJ	10	10 §	12	10m	3.0uØ	6.0	1.0m	75	600nb			10p	A	TO5		
84#	NKT32	66m	7.5MΔ	1.3m	ØJ	10	10 §	12	10m	3.0uØ	6.0	1.0m	100	600nb			10p		R65		
85#	NKT42	66m	7.5MΔ	1.3m	ØJ	10	10 §	12	10m	3.0uØ	3.0	1.0m	100	600nb			10p	A	TO5		
86#	OC304	67m	900k	2.2m	ØJ		15		50m		5.0Ø	1.0m	70	45u	1.8k	11		A			
87#	OC305	67m	2.0M	2.2m	ØJ		8.0		50m		5.0Ø	1.0m	150	50u	4.5k	13		A			
88	2N222	70m			#A	12				15uØ			20								
89#	2SA432	70m				20		.20	5.0m	10u	6.0	1.0m	16					ME	TO17		
90#	TS15	70m	.50M	2.0m	*J	65		20			9.0Ø	1.0m	35					A			
91#	EW58/1	70m	.70M			5.0			20m	4.0u			24				60				
92#	EW58/2	70m	.70M			50			20m	4.0u			40				60				
93#	EW59	70m	.70M			20			20m	4.0uØ			32				30				
94#	EW53/1	70m	.80M		*A	10			20m	4.0uØ			24				45				
95#	EW53/2	70m	.80M		*A	10			20m	4.0uØ			40				45				
96#	2SB264	70m	1.0M		ØJ	25			50m	10uØ	1.5Ø	.50m	65				15p	A	TO1		
97#	TS7	70m	4.0M	2.0m	*J	20		20			4.5Ø	1.0m	35					AB			
98#	TS8	70m	8.5M	2.0m	*J	10		10			4.5Ø	1.0m	65					AB			
99#	2SA430	70m	450M§Δ	1.2m	#J	20			5.0m	10uØ	6.0Ø	2.0m	4.5				.80p	ME	TO72		
100#	2SA432A	70m	450M§	1.2m	#J	20	18 Ø	.20	5.0m	10uØ	6.0Ø	2.0m	4.5				1pØ	ME	TO72		
101#	2SA431	70m	500M§		#J	20	20	.20	5.0m	10uØ							1pØ	ME	TO17		
102#	2SA431A	70m	500M§	1.2m	#J	20	20	.20	5.0m	10uØ	6.0	1.0m	15				1pØ	ME	TO72		
103	TIXM16	70mΔ	500M§	1.8m	♦A	20	16	.30	50m	5.0uØ	6.0Ø	2.0mØ	20 †Δ				.7p$	PE†	TO92	B	
104	TIXM17	70mΔ	500M§	1.8m	♦A	20	16	.30	50m	5.0uØ	6.0Ø	2.0mØ	35 †Δ				.7p$	PE†	TO92	B	
105	TIXM14	70mΔ	600M§	1.8m	♦A	20	16	.30	50m	5.0uØ	6.0Ø	2.0mØ	40 †Δ				.7p$	PEØ†	TO92	B	
106	TIXM15	70mΔ	600M§	1.8m	♦A	20	16	.30	50m	5.0uØ	6.0Ø	2.0mØ	20 †Δ				.7p$	PE†	TO92	B	
107#	M8124	70m	900M§	1.1m	#J	20		.20	5.0m	10u			15				.30p		TO17		
108	TIXM18	70mΔ	900M§	1.7m	♦A	18	12	.20	50m	5.0uØ	8.0Ø	3.0mØ	90 †				750f$	PEØ	X55	A	
109	TIXM19	70mΔ	900M§	1.7m	♦A	18	12	.20	50m	5.0uØ	8.0Ø	3.0mØ	100 †				750f$	PE†	X55	A	
110#	AF109	72m	200M§Δ	1.1m	ØJ		18		12m										TO18		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C O A D E
1	2N695†	75m		1.0m	#J	15	15	3.5	50m	3.0u	.30Ø	10mØ	25 †Δ				5.0pØ		TO17	G
2	2N801†	75m		1.2m	#S	30	18	20	400m	4.0uØ	.25Ø	1.0mΔ	30 †Δ				20pØ		u8	A
3	2N802†	75m		1.2m	#S	30	18	20	400m	4.0uØ	.25Ø	1.0mΔ	30 †Δ				20pØ		u9	B§
4	2N803†	75m		1.2m	#S	30	15	20	400m	4.0uØ	.25Ø	1.0mΔ	40 †Δ				20pØ		u8	A
5	2N804†	75m		1.2m	#S	30	15	20	400m	4.0uØ	.25Ø	1.0mΔ	40 †Δ				20pØ		u9	B§
6	2N805†	75m		1.2m	#S	30	12	20	400m	4.0uØ	.25Ø	1.0mΔ	60 †Δ				20pØ		u8	A
7	2N806†	75m		1.2m	#S	30	12	20	400m	4.0uØ	.25Ø	1.0mΔ	60 †Δ				20pØ		u9	B§
8	JAN2N1158A	75m		1.0m	#S	20	20 Ø	.50	100m	5.0uØ	10	3.0m	50				2.8pØ	ME	TO9	
9	L5431	75m		1.0m	#S	20	20 Ø	.40		10uØ	15	2.0mØ	6.0 †Δ				1.5p	MA		
10	TI446	75m				30			50m	5.0uØ	6.0Ø	2.0mØ	10 Δ					MEΔ	TO50	
11	TI447	75m				30			50m	5.0uØ	6.0Ø	2.0mØ	10 Δ					MEΔ	TO50	
12	TI448	75m				30			50m	5.0uØ	6.0Ø	2.0mØ	10 Δ					MEΔ	TO50	
13#	V10/1S	75m		2.5m	ØJ	10		20	500m		.35	400m	40 †					A		
14#	V10/2S	75m		2.5m	ØJ	10		20	500m		.35	400m	25 †					A		
15#	V10/2SJ	75m		2.5m	ØJ	10			500m		.35	400m	25 †					A	TO5	
16	CTP1032	75m	.60M	2.8mØ		25			40m	4.0uØ	6.0Ø	1.0mØ	13				35p	A		
17	2N266	75m	.80M	2.5m	*A	18	18	5.0	200m		1.0Ø	150mØ	24 †		1.2k		35p		R109	
18	CTP1033	75m	.80M	2.3mØ		25			40m	4.0uØ	6.0	1.0mØ	25				33p	A		
19#	2SB306	75m	.90M		ØJ	105		50	20m	10u	.35Ø	2.0mØ	50 †					A	TO5	
20	2N2447	75m	1.0M	1.3m	#J	45	24	12	100m	10uØ	6.0Ø	1.0m	65	25u	1.8k	5.0		FA	u8	
21	2N2448	75m	1.0M	1.3m	#J	45	24	12	100m	10uØ	6.0Ø	1.0m	65	25u	1.8k	5.0		FA	u9	
22	CTP1034	75m	1.0M	2.3mØ		25			40m	4.0uØ	6.0	1.0mØ	45				30p	A		
23	TS619	75m	1.0M	2.9m	#S	25			50m	8.0u	6.0Ø	1.0mØ	50					A		
24	2N2449	75m	1.2M	1.3m	#J	35	20	12	100m	10uØ	6.0Ø	1.0m	125	36u	3.6k	7.0		FA	u8	
25	2N2450	75m	1.2M	1.3m	#J	35	20	12	100m	10uØ	6.0Ø	1.0m	125	36u	3.6k	7.0		FA	u9	
26	CK22B	75m	1.2M	1.3m	#J	20	15	12	100m	10u	6.0Ø	1.0m	90	36u	3.6k	7.0		FAØ	u8	
27	CK22C	75m	1.2M	1.3m	#J	20	15	12	100m	10u	6.0Ø	1.0m	90	36u	3.6k	7.0		FAØ	u9	
28	CTP1035	75m	1.2M	2.3mØ		25			40m	4.0uØ	6.0	1.0mØ	65				28p	A		
29#	ASY14†	75m*	1.5M	2.5m	ØJ	80	80	10	250m	10uØ	.70Ø	80mØ	25 †Δ				25p	A	R43	
30	CTP1036	75m	1.5M	2.m	Ø	25			40m	4.0uØ	6.0	1.0mØ	85				25p	A		
31#	OC308	75m*	1.5M	2.5m	ØJ	32	18	10	250m	10uØ	.70Ø	80mØ	30 †Δ				25p	A	R43	
32#	NKT73	75m	2.5M§Δ	1.5m	ØJ	15		10	10m	5.0uØ	4.5Ø	1.0mØ	25 Δ				11p		TO1	A
33	2N809	75m	3.0MΔ	1.2m	#S	30	15	20	200m	5.0uØ	6.0	1.0m	30 †Δ				20pØ		u8	A
34	2N810	75m	3.0MΔ	1.2m	#S	30	15	20	200m	5.0uØ	6.0	1.0m	30 †Δ				20pØ		u9	B§
35#	NKT52	75m	3.0MΔ	1.5m	ØJ	10	10 Ø		10m	2.0u								A	R65	
36#	NKT53	75m	3.0MΔ	1.5m	ØJ	10	10 Ø		10m	2.0u								A	R65	
37#	NKT54	75m	3.0MΔ	1.5m	ØJ	10	10 Ø		10m	2.0u								A	R65	
38#	NKT62	75m	3.0MΔ	1.5m	ØJ	10	10 Ø		10m	2.0u								A	TO5	
39#	NKT63	75m	3.0MΔ	1.5m	ØJ	10	10 Ø		10m	2.0u								A	TO5	
40#	NKT64	75m	3.0MΔ	1.5m	ØJ	10	10 Ø		10m	2.0u								A	TO5	
41#	NKT74	75m	3.0M	1.5m		10	10 Ø		10m								10p		TO1	
42#	NKT126†	75m	3.0MΔ	1.5m	ØJ	20	20 §	6.0	500m	5.0uØ	4.5Ø	1.0mØ	75				22pØ		TO5	A
43#	V6/2R	75m	3.0M	1.5m	ØJ	6.0		6.0	30m		4.5	1.0m	30						TO22	
44	2N799†	75m	4.0MΔ	1.2m	#S	25	12	12	100m	5.0uØ	.15Ø	400uΔ	30 †Δ				20pØ		u8	A
45	2N800†	75m	4.0MΔ	1.2m	#S	25	12	12	100m	5.0uØ	.15Ø	400uΔ	30 †Δ				20pØ		U9	B§
46	2N811	75m	5.0MΔ	1.2m	#S	30	12	20	200m	5.0u	6.0	1.0m	50 †Δ				20pØ		u8	A
47	2N812	75m	5.0MΔ	1.2m	#S	30	12	20	200m	5.0u	6.0	1.0m	50 †Δ				20pØ		u9	B§
48#	NKT103†	75m	5.0M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	75				20p	A	TO22	
49#	NKT106†	75m	5.0M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	75				20p	A	TO22	
50#	NKT109†	75m	5.0M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	75				20p	A	TO22	
51#	NKT123†	75m	5.0M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	75				20p	A	TO5	
52#	NKT129†	75m	5.0M	1.5m	ØJ	30	20 Ø	6.0	400m	10uØ	4.5Ø	1.0mØ	75				20p	AΔ	u9	
53#	V6/4R	75m	5.0M	1.5m	ØJ	6.0		6.0	30m		4.5	1.0m	50				25p	A	TO22	
54	CK83	75m	5.5M	1.3m	#J	12			20m	10u	6.0Ø	1.0m	60				11p	FA	u11	
55#	V6/4RJ	75m	5.5M	2.5m	ØJ	6.0			30m		4.5	1.0m	50				25p	A	TO5	
56#	GET871	75m	6.0M	1.5m	#J	15		10	150m	5.0u	1.0Ø	25mØ	45 †					A	RO11	
57#	GET873	75m	6.0M	1.5m	#J	15		10		5.0u	6.0	1.0m	50	600nb	27	6.0	8.5p	A†	R11	
58#	NKT154/25	75m	6.0M	1.5m	ØJ	6.0	6.0 Ø		10m	2.0u	4.5Ø	1.0mØ	50					A	TO22	
59#	NKT164	75m	6.0M	1.5m	ØJ	6.0	6.0 Ø		10m	2.0u	4.5Ø	1.0mØ	50					A	TO5	
60#	NKT164/25	75m	6.0M	1.5m	ØJ	9.0	9.0 Ø		25m	5.0uØ	4.5	1.0m	50				25p		TO5	
61#	NKT72	75m	6.2M§Δ	1.5m	ØJ	15		10	10m	5.0uØ	4.5Ø	1.0mØ	40 Δ				11p		TO1	A
62#	NKT125†	75m	7.0MΔ	1.5m	ØJ	20	20 §	6.0	500m	5.0uØ	4.5Ø	1.0mØ	100				22pØ		TO5	A
63#	2G301	75m	7.2M	1.3m	#J	15		10	50m	10u	6.0	1.0m	60				8.5p	A		
64#	GET870	75m	7.5M	1.5m	#J	15		10	10m	5.0u	6.0	1.0m	75					AØ	RO11	
65	2N815†	75m	8.0M	1.3m	#J	25	20	15	200m	10u	.75Ø	200mØ	80 †				14p	FA	u8	
66	2N816†	75m	8.0M	1.3m	#J	25	20	15	200m	10u	.75Ø	200mØ	80 †				14p	FA	u9	
67	2N825†	75m	8.0M	1.2m	#J	30	20	20	200m	6.0uØ	1.0Ø	10mØ	95 †	b		100	12p	FA	u8	
68	2N826†	75m	8.0M	1.2m	#J	30	20	20	200m	6.0uØ	1.0Ø	10mØ	95 †	b		100	12p	FA	u9	
69#	NKT153/25	75m	8.0M	1.5m	ØJ	6.0	6.0 Ø		10m	2.0u	4.5Ø	1.0mØ	80					A	TO22	
70#	NKT163	75m	8.0M	1.5m	ØJ	6.0	6.0 Ø		10m	2.0u	4.5Ø	1.0mØ	80					A	TO5	
71#	NKT163/25	75m	8.0M	1.5m	ØJ	9.0	9.0 Ø		25m	5.0uØ	4.5	1.0m	80				25p		TO5	
72#	TF49	75m*	9.0M	2.5m	ØJ	15	10	5.0	300m	1.0uØ	5.0Ø	1.0mØ	90	120u	800	8.0	15p	A	TO1	
73#	NKT102†	75m	10M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	100				20p	A	TO22	
74#	NKT105†	75m	10M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	100				20p	A	TO22	
75#	NKT108†	75m	10M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	100				20p	A	TO22	
76#	NKT122†	75m	10M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	100				20p	A	TO5	
77#	NKT128†	75m	10M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	100				20p	A	TO5	
78#	V6/8R	75m	10M	1.5m	ØJ	6.0		6.0	30m		4.5	1.0m	80				25p	A	TO22	
79#	V6/8RJ	75m	10M	2.5m	ØJ	6.0			30m		4.5	1.0m	80				25p	A	TO5	
80#	V10/1SJ	75m	10M	2.5m	ØJ	10			500m		.35	400m	40 †					A	TO5	
81#	NKT152	75m	11M	1.5m	ØJ	6.0	6.0 Ø		10m	2.0u	4.5Ø	1.0mØ	100					A	TO22	
82#	NKT162	75m	11M	1.5m	ØJ	6.0	6.0 Ø		10m	2.0u	4.5Ø	1.0mØ	100					A	TO5	
83	CK86	75m	12.M	1.3m	#J	12			10m	10u	6.0Ø	1.0m	200				10p	FA	u11	
84	2N813	75m	15MΔ	1.2m	#S	30	10	20	200m	5.0uØ	6.0	1.0m	70 †Δ				20pØ		u8	A
85	2N814	75m	15MΔ	1.2m	#S	30	10	20	200m	5.0uØ	6.0	1.0m	70 †Δ				20pØ		u9	B§
86#	GET872	75m	15.M	1.5m	#J	15		10	150m	5.0u	1.0Ø	25mØ	65 †					A	RO11	
87#	GET874	75m	15M	1.5m	#J	15			10m	5.0u	6.0	1.0m	70	650nb	27	6.0	8.5p	A†	R11	
88#	NKT124†	75m	15MΔ	1.5m	ØJ	20	20 §	6.0	500m	5.0uØ	4.5Ø	1.0mØ	150				22pØ		TO5	A
89#	NKT151	75m	15M	1.5m	ØJ	6.0	6.0 Ø		10m	2.0u	4.5Ø	1.0mØ	150					A	TO22	
90	2N807†	75m	18.M	1.3m	#J	25		12	100m	5.0uØ	.20Ø	20mØ	60 †					FAΔ	u8	
91	2N808†	75m	18.M	1.3m	#J	25		12	100m	5.0uØ	.20Ø	20mØ	60 †					FAΔ	u9	
92#	NKT101†	75m	18M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	150				20p	A	TO22	
93#	NKT104†	75m	18M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	150				20p	A	TO22	
94#	NKT107†	75m	18M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	150				20p	A	TO22	
95#	NKT121†	75m	18M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	150				20p	A	TO5	
96#	NKT127†	75m	18M	1.5m	ØJ	20	20 Ø	6.0	500m	40u	4.5Ø	1.0mØ	150				20p	A	TO5	
97#	GET875	75m	20.M	1.5m	#J	15		10	150m	5.0u	1.0Ø	25mØ	90 †					A	RO11	
98#	GET931	75m	28.M	1.5m	#	20		2.0	100m	50u	6.0Ø	1.0mØ	20				3.0p		TO5	
99#	GET691	75m	30M	1.5m	ØJ	20		1.0	10m	30u	6.0Ø	1.0mØ	60				2.0p	D	R11	
100#	GET692	75m	40M	1.5m	ØJ	20		1.0	10m	30u	6.0Ø	1.0mØ	60				2.0p	D	R11	
101#	GET693	75m	50M	1.5m	ØJ	20		1.0	10m	30u	6.0Ø	1.0mØ	60				2.0p	D	R11	
102#	AF114N	75m	75M§	1.6m	ØJ	32	15	1.0	10m	8.0uØ	6.0Ø	1.0m	150					AD	TO44	C
103#	AF115N	75m	75M§	1.6m	ØJ	32	15	1.0	10m	8.0uØ	6.0Ø	1.0m	150					ADØ	TO44	C
104#	AF116N	75m	75M§	1.6m	ØJ	32	15	1.0	10m	8.0uØ	6.0Ø	1.0m	150					ADØ	TO44	C
105#	AF117N	75m	75M§	1.6m	ØJ	32	15	1.0	10m	8.0uØ	6.0Ø	1.0m	150					ADØ	TO44	C
106	TIXM207	75m	99M§Δ	1.0m	#A	30	15	.50	50m	5.0uØ	6.0Ø	2.0mØ	10 †Δ				2.0p	DEM	R80	
107	2N2799†	75m	120M§Δ	1.0m	#S	30	15	2.0	100m		.30Ø	10mØ	50 †				2.5p	D	TO9	
108#	AF178	75m	180M§	1.6m	ØJ	25	25	.50	10m	50u	12	1.0mØ	20 Δ				7.5pØ	ADØ	TO12	
109#	2SA240	75m	200M§	1.3m	#J	20	18 Ø	.20	5.0m	10uØ	6.0	1.0m	120 Ø				1.5pØ	EM	TO17	G
110#	2SA276	75m	200M§	1.4m	ØJ	15	15 Ø	2.0	20m	5.0uØ	.50Ø	10mØ	60 †				3.5p	MEΔ	TO17	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C O A D E
1#	2SA508	75m	200M§	1.3m	#J	20	18 Ø	.20	5.0m	10uØ							1.0p	EM	R103 b	G
2	TIXM201	75m	200M§△	1.0m	#A	30	15	.50	50m	5.0uØ	6.0Ø	2.0mØ	18 †△				2.0p	DEM	R80	
3	TIXM202	75m	220M§△	1.0m	#A	30	15	.50	50m	5.0uØ	6.0Ø	2.0mØ	30				2.0p	DEM	R80	
4	TIXM04	75m	224M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.0mØ	22 △				1pØ	PEØ	R97c	
5	2N2797†	75m	235M§	1.0m	#S	40	20	2.5	100m		.30Ø	10mØ	80 †				2.5p	D	TO9	
6	2N2798†	75m	235M§	1.0m	#S	60	25	2.0	100m		.30Ø	10mØ	50 †				2.5p	D	TO9	
7#	2SA507	75m	250M§	1.3m	#J	20	18 Ø	.20	5.0m	10uØ							1.0p	EM	R103 b	G
8#	2SA403	75m	280M§		#J	20	15 §	.20	10m	10uØ	6.0Ø	1.0m	10				1.5p	ME	TO1	
9	TIXM02	75m	282M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.0mØ	28 △				1pØ	PEØ	R97c	
10#	2SA239	75m	300M	1.3m	#J	20		.20	5.0m	10uØ	6.0	2.0m	10				1.5p	ME	TO17	G
11#	2SA463	75m	300M§	1.3m	#J	20	20 Ø	.50	10m	30u	6.0Ø	3.0m	10				1.0p	ME	TO44	
12#	2SA506	75m	300M§	1.3m	#J	20	18 Ø	.20	5.0m	10uØ							1.0p	EM	R103 b	G
13	TIXM204	75m	300M§	1.0m	#A	30	15	.50	50m	5.0uØ	6.0Ø	2.0mØ	25				2.0p	DEM	R80	
14	TIXM205	75m	300M§	1.0m	#A	30	15	.50	50m	5.0uØ	6.0Ø	2.0mØ	30				2.0p	DEM	R80	
15	TIXM206	75m	300M§	1.0m	#A	30	15	.50	50m	5.0uØ	6.0Ø	2.0mØ	25				2.0p	DEM	R80	
16	XT300†	75m	300M§△	1.0m	#S	25	12	2.5	100m	3.0u	.30Ø	10mØ	40 †△				4pØ	D	TO18	
17	TIXM07	75m	315M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.5mØ	1.6 △				1pØ	PEØ	R97c	
18	TIXM03	75m	316M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.0mØ	3.2 △				1pØ	PEØ	R97c	
19	TIXM203	75m	350M§△	1.0m	#A	30	15	.50	50m	5.0uØ	6.0Ø	2.0mØ	10 †△				2.0p	DEM	R80	
20	TIXM01	75m	355M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.0mØ	3.5 △				1pØ	PEØ	R97c	
21	TIXM06	75m	380M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.5mØ	8.4 △				1pØ	PEØ	R97c	
22	TIXM08	75m	380M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.5mØ	1.2 △				1pØ	PEØ	R97c	
23#	2SA54	75m	400M§		#J	20	15 §	.20	10m	5.0uØ	6.0Ø	2.0m	12				1.2p	ME	R77	
24#	2SA404	75m	400M§		#J	20	15 §	.20	10m	10u	6.0Ø	1.0m	12				1.2p	ME	R77	
25#	GMO378	75m	400M§	1.0m	#J	18		.30	50m	5.0uØ	8.0Ø	4.5mØ	20 †△				1.8p	MEØ	TO18	
26	TIXM05	75m	450M§△	1.0m	#A	20	10	.20	30m	10uØ	10Ø	1.5mØ	2.2 △				1pØ	PEØ	R97c	
27	TI390	75m	500M§	1.0m	#S	18		.30	50m	5.0uØ	6.0Ø	2.0mØ	40 †△					EM	TO18	
28	TI391	75m	500M§	1.0m	#S	18		.30	50m	5.0uØ	6.0Ø	2.0mØ	20 †△					EM	TO18	
29	TI400	75m	500M§	1.0m	#S	18		.30	50m	5.0uØ	6.0Ø	2.0mØ	40 †△					EØ	R80	X
30	TI401	75m	500M§	1.0m	#S	18		.30	50m	5.0uØ	6.0Ø	2.0mØ	20 †△					E	R80	X
31	TI402	75m	500M§	1.0m	#S	18		.30	50m	5.0uØ	6.0Ø	2.0mØ	20 †△					E	R80	X
32	TI403	75m	500M§	1.0m	#S	18		.30	50m	5.0uØ	6.0Ø	2.0mØ	35 †△					E	R80	X
33	TIX3032	75m	500M§	1.0m	#S	25	15	.20	100m	10uØ	12Ø	6.0mØ	25 △					PEØ	TO72	Ø
34	XT400	75m	600M*	1.0m	#S	40	30	1.0	100m	3.0u							2.0p	D	TO18	
35#	GM290	75m	700M§	1.0m	#A	18	15	.30	50m	5.0uØ	12Ø	3.0mØ	20 †△				1.5p	EMØ	ZB12	
36#	2SA229	75m	750M	1.2m	ØJ	20		.20	5.0m		6.0	2.0m	10				1.0p	ME	TO17	
37#	2SA230	75m	750M	1.2m	ØJ	20		.20	5.0m		6.0	2.0m	10				1.0p	ME	TO17	
38	2N700/18	75m	800M§	1.0m	#J	25	20	20	50m	2.0uØ	6.0Ø	2.0m	10	b	17		1.1p	MEt	TO18	
39	2N700A/18	75m	800M§	1.0m	#J	25	25	.20		100u	6.0Ø	2.0m	4.0 △				1.4pØ	MEt	TO18	
40#	GMO290	75m	800M§	1.0m	#J	20	15	.30	50m	5.0uØ	12Ø	3.0mØ	20 †△				1.2p	MEØ	TO18	
41#	TIXM10	75m	900M§	1.0m	#A	18	12	.20	50m	10uØ	8.0Ø	3.0mØ	90 †				750f§	PEØ	X45	
42#	TIXM11	75m	900M§	1.0m	#A	18	12	.20	50m	10uØ	8.0Ø	3.0mØ	100 †				750f§	PEØ	X45	
43#	GM656A	75m	930M*	1.0m	#A	18	15	.30	50m	5.0uØ	12Ø	3.0mØ	20 †△					EM	R80	X
44	MM2503	75m	1.0G§△	1.0m	#J	30	15	.50	20m	10uØ	6.0Ø	3.0mØ	25 △				2pØ	EAØ	R38	
45	2N1405	75m	1.1G*	1.0m	#J	30	20	.50	50m	100u	6.0Ø	2.0mØ	10 △				3.0p	MEØ	TO12	
46	2N1406	75m	1.1G*	1.0m	#J	30	20	.50	50m	100u	6.0Ø	2.0mØ	10 △				3.0p	MEØ	TO12	
47	2N1407	75m	1.1G*	1.0m	#J	30	20	.50	50m	100u	6.0Ø	2.0mØ	10 △				3.0p	MEt	TO12	
48	2N2363	75m	1.1G*	1.0m	#J	30	20	.50	50m	5.0uØ	6.0Ø	2.0mØ	10				2.0p	MEØ	R38	
49	TIX3024	75m	1.5G§△	1.0m	#S	15	7.0	.30	50m	6.0uØ	5.0Ø	3.0mØ	30 △				3.0pØ	EMØ	u26	
50	TIXM101	75m	1.5G§△	1.0m	#S	15	7.0	.30	50m	6.0uØ	5.0Ø	2.0mØ	70				3pØ	PEØ	TO72	G
51	TIX895†	75m	2.5G§	1.0m	#A	5.0	3.0	.80	75m	5.0uØ	2.5Ø	15mØ	3.0 △				1.5pØ	DEM	u25	
52	2N23	80m			*S	50	50	40	40m	2mØ								PC△		
53#	2NJ52	80m			*A	20		2.5	30m	12uØ	9.0	1.0mØ	40					A	R18	
54#	2NJ53	80m			*A	20		2.5	30m	12uØ	1.0Ø	30mØ	60 †					A	R18	
55#	2SB74	80m			#J	16		.50	15m	10u	6.0Ø	1.0m	48					A	TO1	
56#	2SB384	80m		1.3m	#J	20			30m	10uØ	6.0Ø	1.0m	60	23u	1.6k	3.5		A	TO1	
57#	2SB385	80m		1.3m	#J	20	15 §		30m	10uØ	1.0Ø	50mØ	50 †					A	TO1	
58#	2T14A	80m		2.0m	*	25			20m	10uØ	6.0	1.0m	90				20p	A		
59#	2T15	80m		2.0m	*	25			20m	10uØ	6.0	1.0m	45				20p	A		
60#	2T16	80m		2.0m	*	25			20m	10uØ	6.0	1.0m	30				20p	A		
61#	2T17	80m		2.0m	*	25			20m	10uØ	6.0	.50m	13				20p	A		
62#	AF146	80m		1.0m	#J	30	30	.50	10m	12uØ	6.0Ø	1.0m	85				4.0p	D	TO7	
63#	AF147	80m		1.0m	#J	24	24	.50	10m	12uØ	6.0Ø	1.0m	70				3.3p	D	TO7	
64#	AF148	80m		1.0m	#J	24	24	.50	10m	12uØ	6.0Ø	1.0m	80				3.3p	D	TO7	
65#	AF149	80m		1.0m	#J	24	24	.50	10m	12uØ	6.0Ø	1.0m	225				3.3p	D	TO7	
66#	AF150	80m		1.0m	#J	24	24	.50	10m	12uØ	6.0Ø	1.0m	70				3.3p	D	TO7	
67#	AF168	80m		1.3m	#J	30	30 Ø	.50	10m	12uØ	6.0Ø	1.0mØ	85				3.1p	D	TO44	
68#	AF169	80m		1.0m	#J	24	24	.50	10m	12uØ	6.0Ø	1.0m	70				3.3p	D	TO44	
69#	AF171	80m		1.3m	#J	24	24 Ø	.50	10m	12uØ	6.0Ø	1.0mØ	225				3.5p	D	TO44	
70	CK17	80m	18m	1.3m	#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	140	770nb	26	11	12p	FA	u11	
71#	GFT20	80m	600k	1.6m	ØJ	15		10		20u	3.0	1.0m	33					A		
72#	GFT20/15	80m	600k	1.6m	ØJ	15		10	50m	20u	3.0	1.0m	33					A	TO5	
73#	GFT20/30	80m	600k	1.6m	ØJ	30		10	50m	20u	3.0	1.0m	33					A△	TO5	
74#	GFT20/60	80m	600k	1.6m	ØJ	60		10		20u	3.0	1.0m	33					A△	TO30	
75#	GFT20R	80m	600k	1.6m	ØJ	15		10		20u	3.0	1.0m	33					A	TO30	
76	CK64	80m	.80M	1.3m	#J	45	29 Ø	12	100m	5.0uØ	6.0Ø	1.0m	25	18u	900	3.5		FAt	u11	
77	CK64A	80m	.80M	1.3m	#J	45	29 Ø	12	100m	5.0uØ	6.0Ø	1.0m	25	18u	900	3.5		FAt	u12	
78	CK64B	80m	.80M	1.3m	#A	45					6.0Ø	1.0mØ	22 †					A	u8	
79	CK64C	80m	.80M	1.3m	#A	45					6.0Ø	1.0mØ	22 †					A	u9	
80#	GFT25	80m	850k	1.6m	ØJ	15		10		20u	3.0	2.0m	50					A		
81#	GFT25/15	80m	850k	1.6m	ØJ	15		10	50m	20u	3.0	2.0m	50					A	TO5	
82#	GFT25/30	80m	850k	1.6m	ØJ	30		10	50m	20u	3.0	2.0m	50					A△	TO5	
83#	GFT25/60	80m	850k	1.6m	ØJ	60		10		20u	3.0	2.0m	50					A△	TO30	
84#	GFT25R	80m	850k	1.6m	ØJ	15		10		20u	3.0	2.0m	50					A	TO30	
85#	2SB40	80m	1.0M	1.6m	ØJ	40	30	12	100m	10uØ	1.0Ø	100mØ	100 †				35p	A△	TO1	A
86#	2SB44	80m	1.0M	1.5m	ØJ	30		12	50m	14uØ	6.0	1.0m	110				35p	A	TO1	A
87#	2SB46	80m	1.0M	1.6m	ØJ	25		12	150m	14u	6.0	1.0m	150	200nb	30	2.5	35p	A	TO1	
88#	2SB47	80m	1.0M	1.6m	ØJ	25		12	50m	14u	6.0	1.0m	150	200nb	30	2.5	35p	A	TO1	
89	CK65	80m	1.0M	1.3m	#J	45	24	12	100m	5.0uØ	6.0Ø	1.0m	45	25u	1.8k	5.0		A	u11	
90	CK65A	80m	1.0M	1.3m	#J	45	24	12	100m	5.0uØ	6.0Ø	1.0m	45	25u	1.8k	5.0		A	u12	
91	CK65B	80m	1.0M	1.3m	#A	45					6.0Ø	1.0mØ	45 †					A	u8	
92	CK65C	80m	1.0M	1.3m	#A	45					6.0Ø	1.0mØ	45 †					A	u9	
93#	GFT21	80m	1.1M	1.6m	ØJ	15		10		20u	3.0	3.0m	90					A		
94#	GFT21/15	80m	1.1M	1.6m	ØJ	15		10	50m	20u	3.0	3.0m	90					A	TO5	
95#	GFT21/30	80m	1.1M	1.6m	ØJ	30		10	50m	20u	3.0	3.0m	90					A△	TO5	
96#	GFT21/60	80m	1.1M	1.6m	ØJ	60		10		20u	3.0	3.0m	90					A△	TO30	
97#	GFT21R	80m	1.1M	1.6m	ØJ	15		10		20u	3.0	3.0m	90					A	TO30	
98	CK22	80m	1.2M	1.3m	#J	20	15	12	100m	10u	6.0Ø	1.0m	90	36u	3.6k	7.0		FAØ	u11	
99	CK22A	80m	1.2M	1.3m	#J	20	15	12	100m	10u	6.0Ø	1.0m	90	36u	3.6k	7.0		FAØ	u12	
100	CK66	80m	1.2M	1.3m	#J	35	20	12	100m	5.0uØ	6.0Ø	1.0m	90	36u	3.6k	7.0		FA	u11	
101	CK66A	80m	1.2M	1.3m	#J	35	20	12	100m	5.0uØ	6.0Ø	1.0m	90	36u	3.6k	7.0		FAt	u12	
102	CK66B	80m	1.2M	1.3m	#A	35					6.0Ø	1.0mØ	90 †					A	u8	
103	CK66C	80m	1.2M	1.3m	#A	35					6.0Ø	1.0mØ	90 †					A	u9	
104#	GFT22	80m	1.3M	1.6m	ØJ	15		10		20u	3.0	5.0m	150					A		
105#	GFT22/15	80m	1.3M	1.6m	ØJ	15		10	50m	20u	3.0	5.0m	150					A	TO30	
106#	GFT22/30	80m	1.3M	1.6m	ØJ	30		10	50m	20u	3.0	5.0m	150					A△	TO30	
107#	GFT22/60	80m	1.3M	1.6m	ØJ	60		10		20u	3.0	5.0m	150					A△	TO30	
108#	GFT22R	80m	1.3M	1.6m	ØJ	15		10		20u	3.0	5.0m	150					A	TO30	
109	CK67	80m	1.5M	1.3m	#J	35	15	12	100m	5.0uØ	6.0Ø	1.0m	180	50u	7.2k	95		FAt	u11	
110	CK67A	80m	1.5M	1.3m	#J	35	15	12	100m	5.0uØ	6.0Ø	1.0m	180	50u	7.2k	95		FAt	u12	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1	CK67B	80m	1.5M	1.3m		#A	35					6.0Ø	1.0mØ	180 †					A	u8		
2	CK67C	80m	1.5M	1.3m		#A	35					6.0Ø	1.0mØ	180 †					A	u9		
3	2N159†	80m	2.0MΔ			#	50		50	10m									PC	OV4		
4#	2V464	80m	2.0M	2.0m			15			20m	6.0u	6.0	1.0m	20				15p	PA			
5#	2V465	80m	2.0M	2.0m			15			20m	6.0u	6.0	1.0m	50				15p	PA			
6#	AC107	80m	2.0M	1.6m		ØJ	15	15	5.0	10m	3.0uØ	5.0	300u	60				14p	AØ	R9		
7	CK13	80m	2.5M	1.3m		#J	30	18	20	200m	5.0uØ	6.0Ø	1.0m	30	600nb	25	3.0	12p	FAØ	u11		
8	CK13A	80m	2.5M	1.3m		#J	30	18	20	200m	5.0uØ	6.0Ø	1.0m	30	600nb	25	3.0	12p	FAØ	u12		
9	OC46N	80m	3.0M§Δ	1.6m		ØJ	20	20		100m	3.0uØ	0.0	15mØ	20 †Δ					AΔ	TO1		A
10#	2V482	80m	3.5M	2.0m			15			20m	5.0u	6.0	1.0m	40				12p	PA			
11#	2SA14	80m	4.0M			#J	16		.50	15m	10u	6.0Ø	1.0m	50				10p	A	TO1		
12#	2V466	80m	4.0M	2.0m			15			20m	6.0u	6.0	1.0m	80				15p	PA			
13#	2V483	80m	4.0M	2.0m			15			20m	5.0u	6.0	1.0m	60				12p	PA			
14	CK25†	80m	4.0M	1.3m		#J	30	20	20	400m	4.0uØ	.25Ø	1.0mΔ	30 †				14p	FA	u11		
15	CK25A†	80m	4.0M	1.3m		#J	30	20	20	400m	4.0uØ	.25Ø	1.0mΔ	30 †				14p	FA	u12		
16	2N1673	80m	5.0M	1.3m		#	35		.50	10m	50uØ	9.0	1.0m	100				3pØ	D	TO33		
17#	2SA296	80m	5.0M			#J	15			15m	5.0uØ	6.0Ø	1.0m	45				13p	A	TO1		
18#	2SA325	80m	5.0M			#J						1.0Ø	80mØ	60 †				13p	A	TO1		
19#	2SA151	80m	6.0M			#J	9.0		.50	15m	.10u	3.0Ø	1.0m	50				13p	A			
20	CK26†	80m	6.0M	1.3m		#J	30	18	20	400m	4.0uØ	.25Ø	1.0mΔ	40 †				14p	FA	u11		
21	CK26A†	80m	6.0M	1.3m		#J	30	18	20	400m	4.0uØ	.25Ø	1.0mΔ	40 †				14p	FA	u12		
22#	2V467	80m	7.0M	2.0m			15			20m	6.0u	6.0	1.0m	120				15p	PA			
23	CK14	80m	7.0M	1.3m		#J	30	15	20	200m	5.0uØ	6.0Ø	1.0m	60	620nb	25	5.0	12p	FA	u11		
24	CK14A	80m	7.0M	1.3m		#J	30	15	20	200m	5.0uØ	6.0Ø	1.0m	60	620nb	25	5.0	12p	FA	u12		
25#	2SA13	80m	8.0M	1.3m		#J	12		.50	15m	10u	6.0Ø	1.0m	55				33p	A	TO1		
26#	2SA141	80m	8.0M	1.3m		#J	15	15 Ø	1.5	15m	5.0uØ	6.0Ø	1.0m	70				12p	A	TO1		A
27#	2SA142	80m	8.0M	1.3m		#J	15	15 Ø	1.5	15m	5.0uØ	6.0Ø	1.0m	70				12p	A	TO1		A
28#	2SA142A	80m	8.0M	1.3m		#J	35	35 Ø	1.5	15m	5.0uØ	6.0Ø	1.0m	70				11p	A	TO1		A
29	2N1425	80m	10MΔ	1.6m		#S	24		.50	10m	12uØ	6.0Ø	1.0m	17 Δ				3.7pØ		TO7		HØ
30	2N1426	80m	10MΔ	1.6m		#S	24		.50	10m	12uØ	6.0Ø	1.0m	27 Δ				3.7pØ		TO7		HØ
31#	2SA152	80m	10.M			#J	9.0		.50	15m	.10u	3.0Ø	1.0m	55				13p	A			
32#	2SA297	80m	10.M			#J	16			15m	5.0uØ	6.0Ø	1.0m	65				13p	A	TO1		
33#	2SA326	80m	10.M			#J						1.0Ø	80mØ	60 †				13p	A	TO1		
34#	2SA371†	80m	10.M	1.3m		#J	20	15	12	15m	6.0uØ	1.5Ø	10mØ	70 †				10p	A	TO1		A
35#	2V484	80m	10.M	2.0m			15			20m	5.0u	6.0	1.0m	100				12p	PA			
36	CK16	80m	10M	1.3m		#J	30	12	20	200m	5.0uØ	6.0Ø	1.0m	80	650nb	25	7.0	12p	FA	u11		
37	CK16A	80m	10M	1.3m		#J	30	12	20	200m	5.0uØ	6.0Ø	1.0m	80	650nb	25	7.0	12p	FA	u12		
38#	2V485	80m	11.M	2.0m			15			20m	5.0u	6.0	1.0m	80				12p	PA			
39	CK27†	80m	11.M	1.3m		#J	30	15	20	400m	4.0uØ	.25Ø	1.0mΔ	55 †				14p	FA	u11		
40	CK27A	80m	11.M	1.3m		#J	30	15	20	400m	4.0uØ	.25Ø	1.0mΔ	55 †				14p	FA	u12		
41#	2SA16	80m	12.M	1.3m		#J	12		.50	15m	10u	6.0Ø	1.0m	60				32p	A	TO1		
42#	2V486	80m	12.M	2.0m			15			20m	5.0u	6.0	1.0m	120				12p	PA			
43	CK4†	80m	12.M	1.3m		#J	25		12	100m	5.0uØ	.20Ø	1.0mΔ	40				12p	FA	u11		
44	CK4A†	80m	12.M	1.3m		#A	25		12	100m	5.0uØ	.15Ø	.40mΔ	60 †				12p	FA	u12		
45#	2SA143	80m	15.M	1.3m		#J	15	15 Ø	1.5	15m	5.0uØ	6.0Ø	1.0m	70				12p	A	TO1		A
46	CK28†	80m	17.M	1.3m		#J	30	12	20	400m	4.0uØ	.25Ø	1.0mΔ	80 †				14p	FA	u11		
47	CK28A†	80m	17.M	1.3m		#J	30	12	20	400m	4.0uØ	.25Ø	1.0mΔ	80 †				14p	FA	u12		
48	CK17A	80m	18M	1.3m		#J	30	10	20	200m	5.0uØ	6.0Ø	1.0m	140	770nb	26	11	12p	FA	u12		
49#	OC43	80m	18M§	1.6m		ØJ	15	15	12	50m	10u	0.0	50m	100 †					AΔ	R8		
50#	2SA17	80m	19.M			#J	12		.50	15m	6.0u	6.0Ø	1.0m	100				9.5p	A	TO1		
51#	2SA18	80m	19M	1.3m		ØJ	21		12	15m		6.0Ø	1.0m	150				9.5p	A	TO1		
52#	2SA18H†	80m	21.M	1.4m		#J	21	12	16	15m		6.0Ø	1.0m	140				10p	A	TO1		A
53#	2SA356	80m	25.M				9.0		.50	10m	15u	3.0Ø	1.0m	80				2.8p	D	TO1		
54#	2SA383	80m	25.M	1.3m		#S	25			10m	12uØ	6.0	1.0m	40				2.5p	D	TO1		
55#	2V562	80m	25.M	1.0m			30			10m	10u	9.0	1.0m	50				2.5p	PD			
56#	2V563	80m	25.M	1.0m			30			10m	10u	9.0	1.0m	100				2.5p	PD			
57	2N247	80m	30.M			ØA	35		1.0	10m	16u	9.0Ø	1.0mØ					1.7p	DΔ			
58	JAN2N274	80m	30M	1.8m		ØA	35		.50	10m	8.0uØ	12Ø	1.0m	60				1.7p	A	TO44		
59	2N370/33	80m	30.M	667u		#J	24		.50	10m	10uØ	12Ø	1.0mØ	107				3pØ	D	TO33		
60	2N371	80m	30M			ØA	24		.50	10m	10u							30p$	AD	TO7		H
61	2N371/33	80m	30.M	2.0m		#J	24		.50	10m	10uØ	12Ø	1.0mØ	97				3pØ	D	TO33		
62	2N372/33	80m	30.M	2.0m		#J	24		.50	10m	10uØ	12Ø	1.0mØ	97				3pØ	D	TO33		
63	2N374	80m	30M	1.3m		ØJ	24			10m	16uØ								DA	TO7		
64	2N544	80m	30M	1.1m		ØA	18		1.0	10m	8.0uØ	12	1.0m	60				1.6p	D	TO7		
65	2N544/33	80m	30.M	1.0m		#J	24		1.0	10m	16uØ	12Ø	1.0mØ	97				3pØ	D	TO33		
66#	2SA83	80m	30.M	1.3m		#J	25		.50	10m		9.0Ø	1.0m	60					D	TO44		
67#	2SA353A	80m	30.M				50		1.0	10m	50u	9.0Ø	1.0mØ	70				2.5p	D	TO1		
68#	2SA354A	80m	30.M				50		1.0	10m	50u	9.0Ø	1.0mØ	70				2.5p	D	TO1		
69#	2SA355A	80m	30.M				50		1.0	10m	.50u	9.0Ø	1.0mØ	90				2.5p	D	TO1		
70#	2SA357	80m	30.M				9.0		.50	10m	15u	3.0Ø	1.0m	80				2.8p	D	TO1		
71#	2SA367	80m	30.M	1.3m		#J	20	20 Ø	.50	10m	15uØ	9.0Ø	1.0m	70				2.5p	D	TO1		
72#	2SA382	80m	30.M	1.3m		#S	25			10m	12uØ	6.0	1.0m	55				2.5p	D	TO1		
73#	2V560	80m	30.M	1.0m			25			10m	10u	9.0	1.0m	70				2.2p	PD			
74#	2V561	80m	30.M	1.0m			30			10m	10u	9.0	1.0m	30				2.2p	PD			
75	40262	80m	30.M§	1.3m		#J	50		.50	10m	12uØ	6.0Ø	1.0mØ	150				3.4p$	DA	TO1		A
76	40488	80m	30.M§	1.3m		#A	12		.50	10m	12uØ	6.0Ø	1.0mØ	80				3.7p$	D	TO1		A
77	40489	80m	30.M§	1.3m		#A	50		.50	10m	12uØ	6.0Ø	1.0mØ	180				3.4p$	D	TO1		A
78#	XA121	80m	30M	1.3m		ØA	25		.50	10m	8.0u	12Ø	1.0mØ	60	1.5u	2.2k		1.6p	D	TO7		
79#	XA122	80m	30M	1.3m		ØA	25		.50	10m	8.0u	12Ø	1.0mØ	60	1.0u	2.6k			D	TO7		
80#	XA123	80m	30.M			ØA	20		.50	10m	20u	12Ø	1.0mØ	60					D	TO7		
81#	XA124	80m	30.M			ØA	20		.50	10m	20u	12Ø	1.0mØ	60					D	TO7		
82#	XA126	80m	30M	1.3m		ØA	20						1.0mØ	60					D	TO7		
83	2N1525	80m	33.M	2.5m		#S	24		.50	10m	16uØ	6.0Ø	1.0m	17 Δ				3.6p		TO40		AØ
84	2N1526/33	80m	33.M	2.5m		#A	24		.50	10m	16uØ	12Ø	1.0m	130				2.0p	D	TO33		
85	2N1527	80m	33.M	2.5m		#S	24		.50	10m	16uØ	5.7Ø	1.0m	27 Δ						TO40		AØ
86#	2SA298	80m	35.M	1.3m		#J	40			10m	8.0uØ	6.0Ø	1.0m	55				2.5p	D	TO44		
87#	2SA327	80m	35.M			#J						1.0Ø	80mØ	30 †				2.5p	D	TO44		
88#	2SA381	80m	35.M	1.3m		#S	25			10m	12uØ	6.0	1.0m	50				2.5p	D	TO1		
89#	2V559	80m	35.M	1.0m			25			10m	10u	9.0	1.0m	120				2.1p	PD			
90#	2SA81	80m	40.M	1.3m		#J	20		.50	10m		9.0Ø	1.0m	80					D	TO44		
91#	2SA84	80m	40.M	1.3m		#J	25		.50	10m		9.0Ø	1.0m	80					D	TO44		
92#	2SA368	80m	40.M	1.3m		#J	20	20 Ø	.50	10m	15uØ	9.0Ø	1.0m	70				2.5p	D	TO1		
93#	2SA375†	80m	40.M	1.3m		#J	30	30 Ø	1.5	100m	6.0uØ	1.0Ø	50mØ	40 †				2.5p	DΔ	TO1		
94#	2SA384	80m	40.M	1.3m		#S	25			10m	12uØ	6.0	1.0m	60				2.5p	D	TO1		
95	3746	80m	40.M				34		.50	20m		12		65 †					DΔ			
96	40261	80m	40.M§	1.3m		#J	50		.50	10m	12uØ	6.0Ø	1.0mØ	80				3.7p$	DA	TO1		A
97	40487	80m	40.M§	1.3m		#A	50		1.5	10m	12uØ	6.0Ø	1.0mØ	150				3.7p$	D	TO1		A
98	2N640	80m	42M	1.3m		ØA	34		1.0	10m	5.0uØ	12Ø	1.0mØ	60				1.6p	D	TO7		A
99	2N641	80m	42M	1.3m		ØA	34		1.0	10m	7.0uØ	12Ø	1.0mØ	60				1.6p	D	TO7		A
100	2N642	80m	42M	1.3m		ØA	34		1.0	10m	7.0uØ	12Ø	1.0mØ	60				1.6p	D	TO7		A
101#	2SA94	80m	45.M	1.3m			9.0												D			
102#	2SA133	80m	45.M			#J	9.0		.50	10m	30u	3.0Ø	1.0m	50				6.5p	ME			
103#	2SA364	80m	45.M	1.3m		#J	9.0	9.0 Ø	.50	10m	30u	3.0Ø	1.0m	60				6.0p	ME	TO44		
104#	2SA80	80m	50.M	1.3m		#	20		.50	10m		9.0	1.0m	100						TO44		
105#	2SA82	80m	50.M	1.3m		#J	20		.50	10m		9.0Ø	1.0m	85					D	TO44		
106#	2SA85	80m	50.M	1.3m		#J	25		1.0	10m		9.0Ø	1.0m	85					D	TO44		
107#	2SA131	80m	50.M			#J	9.0		.50	10m	.30u	3.0Ø	1.0m	40				6.5p	ME			
108#	2SA365	80m	50.M	1.3m		#J	9.0	9.0 Ø	.50	10m	30u	3.0Ø	1.0m	60				6.0p	ME	TO44		
109#	2SA369	80m	50.M	1.3m		#J	20	20 Ø	.50	10m	15uØ	9.0Ø	1.0m	80				2.5p	D	TO1		
110#	2SA306	80m	55.M	1.3m		#J	40			10m	8.0uØ	6.0Ø	1.0m	65				2.3p	D	TO44		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	2SA132	80m	60.M		#J	9.0		.50	10m	.30u	3.0Ø	1.0m	80				6.5p	ME		
2#	2SA380	80m	60.M	1.3m	#S	25			10m	12uØ	6.0	1.0m	70				2.5p	D	TO1	
3#	2SA130	80m	75.M		#J	9.0		.50	10m	.30u	3.0Ø	1.0m	80				6.5p	ME		
4#	2SA307	80m	75.M	1.3m	#J	40			10m	8.0uØ	6.0Ø	1.0m	70				2.2p	D	TO44	
5#	2SA366	80m	75.M	1.3m	#J	9.0	9.0 Ø	.50	10m	30u	3.0Ø	1.0m	60				6.0p	ME	TO44	
6#	NKT675	80m	75M§	1.6m	ØJ	20	20 Ø	1.0	10m	8.0uØ	4.5Ø	1.0mØ	40 Δ				3.0pØ	ME	TO1	
7#	NKT677	80m	75M§	1.6m	ØJ	20	20 Ø	1.0	10m	8.0uØ	6.0Ø	1.0mØ	40 Δ				3.0pØ	ME	TO1	
8#	2SA88	80m	90.M		#J	25		.50	10m	.50u	9.0Ø	1.5m	50				2.3p	D		
9#	2SA89	80m	90.M		#J	25		.50	10m	.50u	9.0Ø	1.5m	70				2.3p	D		
10#	2SA233	80m	90.M	1.3m	#J	20		.50	10m	30u	6.0Ø	1.0m	50				2.3p	ME	TO1	
11	2N1180	80m	100M		#	30		.50	10m	12uØ	12Ø	1.0mØ	80				2.0p	D	TO45	H
12	2N1713	80m	100MΔ		#S	12	30	1.0	10m	12u	6.0Ø	1.0mØ	40 Δ				3.1p		TO7	
13#	2SA360	80m	110M	1.3m	#J	20	20 Ø	.50	10m	30u	9.0Ø	1.0m	70				2.3p	ME	TO44	
14#	2SA234	80m	120M			20		.50	10m	30u	6.0Ø	1.0mØ	70				2.1p	ME	TO44	
15#	2SA235H	80m	125M			20		.50	10m	15u	6.0Ø	1.0m	30 Δ				2.1p	ME	TO44	
16#	2SA361	80m	125M	1.3m	#J	20	20 Ø	.50	10m	30u	6.0Ø	1.0m	70				2.3p	ME	TO44	
17#	2SA87	80m	130M		#J	25		.50	10m	.50u	9.0Ø	1.5m	100				2.3p	D		
18#	AF143	80m	130M	1.0m	#J	30	30	1.0	10m	8.0uØ	6.0Ø	1.5m	85				2.4p	D	TO7	
19#	AF144	80m	130M	1.0m	#J	30	30	1.0	10m	8.0uØ	6.0Ø	1.5m	85				2.4p	D	TO7	
20#	AF165	80m	130M	1.3m	#J	30	30 Ø	1.0	10m	8.0uØ	6.0Ø	1.5mØ	85				3.1p	D	TO44	
21#	2SA235	80m	135M			20		.50	10m	30u	6.0Ø	1.0mØ	90				2.1p	ME	TO44	
22	2N1177	80m	140M		#	30		1.0	10m	12uØ	12Ø	1.0mØ	100				2.0p	D	TO45	H
23	2N1178	80m	140M		#	30		1.0	10m	12uØ	12Ø	1.0mØ	40				2.0p	D	TO45	H
24	2N1179	80m	140M		#	30		1.0	10m	12uØ	12Ø	1.0mØ	80				2.0p	D	TO45	H
25#	2SA134	80m	140M		#J	20		.50	10m	.30u	6.0Ø	1.0m	70				2.5p	ME		
26#	154T1	80m	140M	1.1m	#J	12	12 §	1.0	6.0m	10u	6.0Ø	1.0mØ	30 Δ					PEB	R73	
27#	NKT676	80m	140M	1.6m	ØJ		20 Ø		10m	8.0u	4.5	1.0m	40 Δ				2.0p		TO1	
28#	2SA135	80m	150M		#J	20		.50	10m	.30u	6.0Ø	1.0m	70				2.5p	ME		
29#	155T1	80m	150M	1.1m	#J	12	12 §	1.0	6.0m	10u	6.0Ø	1.0mØ	30 Δ					PEB	R73	
30#	156T1	80m	150M	1.1m	#J	12	12 §	1.0	6.0m	10u	6.0Ø	1.0mØ	15 Δ					PEB	R73	
31#	AF142	80m	150M	1.0m	#J	30	30	1.0	10m	8.0uØ	6.0Ø	1.5m	85				2.4p	D	TO7	
32#	AF164	80m	150M	1.3m	#J	30	30 Ø	1.0	10m	8.0uØ	6.0Ø	1.5mØ	85				3.1p	D	TO44	
33#	157T1	80m	160M	1.1m	#J	12	12 §	1.0	6.0m	10u	6.0Ø	1.0mØ	15 Δ					PEB	R73	
34#	2SA288	80m	250M§Δ	1.3m	#J	20		.50	10m	30u	6.0Ø	3.0m	10 Δ				1.2pØ	ME	TO7	
35#	2SA289	80m	250M§Δ	1.3m	#J	20		.50	10m	30u	6.0Ø	3.0m	10 Δ				1.2pØ	ME	TO7	
36#	2SA290	80m	250M§Δ	1.3m	#J	20		.50	10m	30u	6.0Ø	3.0m	10 Δ				1.2pØ	ME	TO7	
37#	THP501	80m	280M	1.3m	#J	20		1.0	10m	20u	9.0	2.0m	65 Ø					Ø	TO12	
38#	THP502	80m	280M	1.3m	#J	20		1.0	10m	20u	9.0	2.0m	55 Δ					Ø	TO12	
39#	504T1	80m	300M§Δ	1.3m	#J	20	20 §	1.0	10m	10u	9.0Ø	2.0mØ	100 †Δ				2pØ	MD	R73	
40#	159T1	80m	330M§	1.3m	#J	14	14 §	7.0	10m	10uØ	9.0Ø	2.0mØ	15 †Δ						R73	
41#	505T1	80m	330M§Δ	1.3m	#J	20	20 §	1.0	10m	10u	9.0Ø	2.0mØ	30 †Δ				2pØ	MD	R73	
42#	508T1	80m	330M§Δ	1.3m	#J	20	20 §	1.0	10m	10u	9.0Ø	2.0mØ	15 †Δ				2pØ	MD	R73	
43#	160T1	80m	345M§	1.3m	#J	14	14 §	7.0	10m	10uØ	9.0Ø	2.0mØ	15 †Δ						R73	
44#	161T1	80m	345M§	1.3m	#J	14	14 §	7.0	10m	10uØ	9.0Ø	2.0mØ	15 †Δ					Ø	R73	
45#	501T1	80m	345M§Δ	1.3m	#J	20	20 §	1.0	10m	10u	9.0Ø	2.0mØ	30 †Δ				1.5pØ	MD	R73	
46#	503T1	80m	345M§Δ	1.3m	#J	20	20 §	1.0	10m	10u	9.0Ø	2.0mØ	15 †Δ				1.5pØ	MD	R73	
47#	162T1	80m	360M§	1.3m	#J	14	14 §	7.0	10m	10uØ	9.0Ø	2.0mØ	15 †Δ						R73	
48#	506T1	80m	380M§Δ	1.3m	#J	20	20 §	1.0	10m	10u	9.0Ø	2.0mØ	30 †Δ				1.5pØ	MD	R73	
49#	507T1	80m	380M§Δ	1.3m	#J	20	20 §	1.0	10m	10u	9.0Ø	2.0mØ	15 †Δ				1.5pØ	MD	R73	
50#	2SA435	80m	400M			20		.50	10m	30u	6.0	3.0m	10 Δ				1.4p	ME	TO18	
51#	2SC125	80m	700M		#	20		.50	10m	30u	6.0	3.0m	10 Δ				.90p	ME	TO7	
52	2N1516	83m		1.6m	ØS	25		.50	10m	13uØ	1.0	6.0	20 †Δ				5.5pØ		TO7	G
53#	OC975	83m		1.6m	ØJ	30			10m		6.0	1.0m	36 Δ					AD	TO7	H
54#	2SA145	83m	6.0M	1.6m	ØJ	15		12	10m	12uØ	6.0	1.0m	50				12p	A	TO1	
55#	2SA302	83m	6.0M	1.6m	ØJ	20		15	100m	3.0uØ		100m	20 †					A	R9	
56#	2SA303	83m	9.0M	1.6m	ØJ	20		15	100m	3.0uØ		100m	50 †					A	R9	
57#	2SA144	83m	12.M	1.7mØ	J	15		12	10m	12uØ	6.0	1.0m	100				11p	A	TO1	
58#	OC43N	83m	12.M§Δ	1.7mØ	J	15	15	12	50m	10u	0.0	50mØ	50 †Δ					AΔ	TO1	A
59	2N1515	83m	70.M§	1.7mØ	J	20			10m	13uØ	6.0Ø	1.0m	100					AD	TO7	H
60	JAN2N1517	83m	70M§	1.6m	ØJ	20			10m	13uØ	6.0	1.0m	67 †				6.0p	AD	TO7	
61	A411	83m	100M§Δ	600	JØ	40	10		10m	6.0uØ	6.0	1.0m	20 †Δ				1.5p†Ø	AD	TO72	J
62#	AFZ11	83m	140M§	1.7mØ	J	20	20 #	.50	10m	50u	6.0Ø	1.0mØ	70				2.0p	ADØ	TO72	G
63#	2SA308	83m	450M§	1.6m	ØJ	20		.30	5.0m	13uØ	12	1.0m	250				500f	AD	TO7	
64#	2SA309	83m	600M§	1.6m	ØJ	20		.30	5.0m	13uØ	12	1.0m	250				500f	AD	TO7	
65	A1378	86m	160M§	2.2m	#J	32	32 §	1.0	30m	3.0uØ	10	1.0m	50		30			PDØ	TO12	
66	2N26	90m			*S	30	40	40	40m	.7mØ								PCΔ		
67	A1220	90m		11u		25	25 Ø	.30	15m	3.5uØ	10	2.0mØ	20 †					PD	TO18	
68#	AF186G	90m		2.0m	ØJ	25	25	.30	15m	3.5u							1.9pØ	ADØ	TO12	
69#	AF186W	90m		2.0m	ØJ	25	25	.30	15m	3.5u							1.9pØ	ADØ	TO12	
70	GT1604	90m	.50M	1.8m	#S	10				6.0u	5.0Ø	1.0m	15				16p		TO9	
71#	NKT255	90m	1.0M	1.5m	#J	9.0	9.0 Ø		10m	5.0u	4.5Ø	1.0mØ	25 Δ					A	TO22	
72#	NKT265	90m	1.0M	1.5m	#J	9.0	9.0 Ø		10m	5.0u	4.5Ø	1.0mØ	25 Δ					A	TO5	
73#	AC170	90m*	1.7M§	2.0m	#J	32	32 Ø	10	200m	25u	6.0Ø	2.0mØ	125	65m	2.5k	5.5	21p	A	R48a	A
74#	AC171	90m*	2.3M§	2.0m	#J	32	32 Ø	10	200m	25u	6.0Ø	2.0mØ	200	83m	4.0k	6.0	21p	A	R48a	A
75	GT1605	90m	6.5M	1.8m	#S	15		1.0		25u	9.0Ø	1.0m	30 Δ	3.0uØ			18pØ	A	TO9	
76#	NKT5	90m	7.5MΔ	1.5m	#A	16	10	15	500m	5.0u	.50	10mØ	7.0 Δ				10p	Δ	R65	
77#	NKT24	90m	7.5MΔ	1.5m	#A	16	10	10	500m	5.0u	.50Ø	10mØ	7.0 Δ				10p	AΔ	TO5	
78#	NKT25	90m	7.5MΔ	1.5m	#A	16	10	10	500m	5.0u	.50Ø	10mØ	7.0 Δ				10p	AΔ	TO5	
79#	38T1	90m	10.M	1.5m	#J	20			50m			10mØ	50 †							
80	GT1606	90m	10.M	1.8m	#S	15		1.0		25u	9.0Ø	.60m	50 Δ	3.0uØ			18pØ	A	TO9	
81#	39T1	90m	15.M	1.5m	#J	14			50m			10mØ	100 †							
82#	NKT4	90m	15.MΔ	1.5m	#A	16	10	10	500m	5.0u	.50	10mØ	7.0 Δ				10p	Δ	R65	
83#	AF256	90m*	330M§Ø	2.0m	#J	25	18	.30	10m	8.0uØ	12Ø	1.0mØ	10 †Δ				700ft†Ø	PL†Ø	MM11	A
84#	AF253	90m*	700M§Ø	2.0m	#J	20	15	.30	10m	5.0uØ	12Ø	2.0mØ	10 †Δ				.4p†	PL	MM12	
85#	AF252	90m*	750M§Ø	2.0m	#J	20	15	.30	10m	5.0uØ	12Ø	2.0mØ	10 †Δ				.4p†	PL	MM12	A
86#	AF251	90m*	800M§Ø	2.0m	#J	20	15	.30	10m	5.0uØ	12Ø	2.0mØ	10 †Δ				.4p†	PL	MM12	A
87	TIX2000	90m	4.2G*	1.5m	#J	15		.50	25m	2.0uØ	6.0Ø	3.0mØ	10 †Δ				1.3p	ME	R38	
88	PADT40	94m	300M	5.5m	Ø	20		2.5	50m		.90	30m	50				5.0p	AD	TO18	
89	2N51	100m			*A	50		50	8.0m				.67					PCΔ		
90	2N649/5	100m			ØA	20		2.5	50m		1.0Ø	50mØ	65 †					A	TO5	
91	JAN2N694	100m		1.3m	#J	30	15	1.0	50m	3.0uØ	6.0	2.0m	9.0 Δ		120		2.0pØ	Dt	TO28	
92	2N2654	100m		2.0m	ØS	25		.50	10m	8.0uØ	6.0Ø	1.0mØ	25 †Δ				1.7pØ		TO12	G
93	2N2671	100m		2.0m	ØS	25		1.0	10m	8.0uØ	6.0Ø	1.0mØ	40 †Δ				2.5pØ		TO12	GØ
94	2N2672	100m		2.0m	#S	25		1.0	10m	8.0uØ	6.0Ø	1.0mØ	40 †Δ				2.5pØ		TO39	A
95	2N2672A	100m		2.0m	#S	32	32 Ø	2.0	10m	8.0uØ	6.0Ø	1.0mØ	40 †Δ				2.5pØ	AD	TO39	
96	3N21†	100m			*A	60		50					2.5					PC$		
97#	AF186	100m		2.0m	ØJ	25			15m				20 †Δ				1.8p	AD	R96	
98#	EW51	100m			*A	20			15m	2.2m			.67					PCΔ		
99	MA898	100m		1.6m	#J	25	25 Ø	10	100m	100u	6.0Ø	1.0m	20 Δ					A	TO5	
100	MA899	100m		1.6m	#J	25	25 Ø	10	100m	100u	6.0Ø	1.0m	40 Δ					A	TO5	
101	MA900	100m		1.6m	#J	25	25 Ø	10	100m	100u	6.0Ø	1.0m	90 Δ					A	TO5	
102	MA901	100m		1.6m	#J	20	20 Ø	10	100m	100u	6.0Ø	1.0m	20 Δ					A	TO5	A
103	MA902	100m		1.6m	#J	15	15 Ø	5.0	100m	100u	6.0Ø	1.0m	15 Δ					A	TO5	A
104	MA903	100m		1.6m	#J	15	15 Ø	5.0	100m	100u	6.0Ø	1.0m	20 Δ					A	TO5	A
105	MA904	100m		1.6m	#J	15	15 Ø	5.0	100m	100u	6.0Ø	1.0m	180 Δ					A	TO5	A
106	SYL1592	100m			ØJ		15	10	200m		.40Ø	1.0mΔ	25 †				30p	A		
107	SYL2120	100m		1.3m	#J	15	15	3.5	50m	3.0uØ	.30Ø	10mØ	25 †Δ					DM	u1	
108	T2351	100m		1.1m	#S	20	20 Ø	.40		50u	15	2.0m	6.0 Δ				.90p	MD	X13	
109#	TK49C	100m		2.0m	Ø	20		20		8.0u*	0.0	5.0m	15 †Δ					A	R47a	
110	2N1432	100m	.01M†	1.3m	#J	45	45 §	.50	10m	15u	15Ø	2.0mØ	60					D	TO33	

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1	TI320	100m	400k△			30			50m	20u	5.0Ø	1.0m	34 †	850nb	38	5.4		A	R44		
2	2N199	100m	500k	1.5m	#	30		6.0	30m	5.0uØ	5.0	1.0m	25				40p				
3	GT758	100m	500k	2.0m	#S	20		15	200m	25u	4.5	1.0m	15	700nb	30	3.0	14p	A△	TO5		
4	OC71N	100m	500k	2.2m	ØJ	30			10m	5.0u	2.0	3.0m	47	80	800	5.4		A	TO1	A	
5	TI321	100m	500k△			30			50m	20u	5.0Ø	1.0m	95 †	830nb	38	8.0		A	R44		
6	2N198	100m	600k	1.5m	#	30		6.0	30m	5.0uØ	5.0	1.0m	40				40p				
7	2N197	100m	700k	1.5m	#	30		6.0	30m	5.0uØ	5.0	1.0m	50				40p				
8	2N196	100m	800k	1.5m	#	30		6.0	30m	5.0uØ	5.0	1.0m	65				40p				
9#	2SB134	100m	800k	1.7	#J	30	30 Ø	15	100m	10uØ	1.5Ø	500u	70	19u	3.2k	5.3		AØ	TO1	A	
10#	2SB135	100m	800k	1.7m	#J	30	30 Ø	15	100m	10uØ	6.0Ø	1.0m	70	21u	2.1k	3.2		A	TO1	A	
11#	2SB135A	100m	.80M	1.7m	#J	110	110 Ø	12	50m	10uØ	1.0Ø	10m	50 †					A	TO1	A	
12	2N195	100m	1.0M	1.5m	Ø	15		6.0	30m	3.0uØ	5.0	1.0m	180				40p				
13	2N200	100m	1.0M	1.5m	#	36		12	100m	4.0uØ	5.0	1.0m	45				40p				
14#	2SB110	100m	1.0M	1.4m	ØJ	25		10	50m	10uØ	6.0Ø	1.0m	30	50ub	30	2.5	15p	A	TO1		
15#	2SB111	100m	1.0M	1.4m	ØJ	25		10	50m	10uØ	6.0Ø	1.0m	45	50ub	30	2.5	15p	A	TO1		
16#	2SB112	100m	1.0M	1.4m	ØJ	25		10	50m	10uØ	6.0Ø	1.0m	60	50ub	30	2.5	15p	A	TO1		
17#	2SB113	100m	1.0M	1.4m	ØJ	25		10	50m	10uØ	6.0Ø	1.0m	80	50ub	30	2.5	15p	A	TO1		
18#	2SB100	100m	1.2M	2.5m	ØJ	30		10	50m	10uØ	6.0Ø	1.0m	60	300nb	30	2.5		AØ	TO5		
19	CK754	100m	1.2M	1.7m	#J		10	20	100m		6.0	1.0m	300					A			
20#	2SB114	100m	1.5M	1.4m	ØJ	25		10	50m	10uØ	1.0Ø	20mØ	65 †				15p	A	TO1		
21#	2SB115	100m	1.5M	1.4m	ØJ	25		10	50m	10uØ	1.0Ø	20mØ	85 †				15p	A	TO1		
22#	2SB116	100m	1.5M	1.4m	ØJ	25		10	50m	10uØ	1.0Ø	20mØ	110 †				15p	A	TO1		
23#	2SB117	100m	1.5M	1.4m	ØJ	25		10	50m	10uØ	1.0Ø	20mØ	140 †				15p	A	TO1		
24	2N30	100m	2.0M		*A	30		50	7.0m		25Ø	50mØ	17 §					PC			
25#	322T1	100m	2.0M	2.0m		20	20	5.0	100m	16u	1.0	5.0m	25 △					A	TO1		
26	AC107M	100m	2.0M§				15		5.0m		5.0Ø	.30mØ	60					Ø	TO5		
27#	ASY61/TK33	100m	2.0M§△			20		.60		8.0u			25 †△				30p	D			
28#	TK21A	100m	2.0M	4.0m	*J	30		30			30	.50mØ	23					AB			
29#	TK26A	100m	2.0M	4.0m	*J	30		30			.50Ø	20m	23					AB			
30#	2SB443A	100m	2.5M	1.7m	#J	18	18 Ø	12	10m	10uØ	6.0Ø	1.0m	110	43u	3.0k	6.5		AØ	TO1	A	
31#	2SB444A	100m	2.5M	1.7m	#J	18	18 Ø	12	10m	7.0uØ	6.0Ø	1.0m	120	50u	3.3k	6.8		AØ	TO1	A	
32#	323T1	100m	2.5M	2.0m		20	20	5.0	100m	16u	1.0	5.0m	40 △					A	TO1		
33#	TK24A	100m	2.5M	4.0m	*J	30		30			.50Ø	40m	32					AB			
34#	TK27A	100m	2.5M	4.0m	*J	30		30			.50Ø	40m	32					AB			
35	2N31	100m	3.0M		*A	30		50	7.0m	800uØ								PC△			
36#	2SB443	100m	3.0M			18	18 Ø	12	10m	10u	6.0Ø	1.0mØ	150	53u	3.9k	7.4		A	TO1		
37#	2SB444	100m	3.0M			18	18 Ø	12	10m	7.0uØ	6.0Ø	1.0mØ	160	59u	3.9k	7.7		A	TO1		
38#	324T1	100m	3.0M	2.0m		20	20	5.0	100m	16u	1.0	5.0m	65 △					A	TO1		
39#	OC3H	100m	3.0M△	1.7m	#S	15	12	10		2.0uØ	6.0	1.0m	50 △				14p	A	TO9		
40#	OC4H	100m	3.0M△	1.7m	#S	15	12	10		2.0uØ	6.0	1.0m	80 △				14p	A	TO9		
41#	2SB443B	100m	3.5M	1.7m	#J	18	18 Ø	12	10m	10uØ	6.0Ø	1.0m	190	63u	4.8k	8.3		AØ	TO1	A	
42#	2SB444B	100m	3.5M	1.7m	#J	18	18 Ø	12	10m	7.0uØ	6.0Ø	1.0m	200	68u	5.2k	8.7		AØ	TO1	A	
43#	325T1	100m	3.5M	2.0m		20	20	5.0	100m	16u	1.0	5.0m	90 △					A	TO1		
44#	GET883	100m	3.5M	1.7m	#J	15		10	10m	5.0u	6.0	1.0m	50					At	TO5		
45#	326T1	100m	4.0M	2.0m		20	20	5.0	100m	16u	1.0	5.0m	140 △					A	TO1		
46	2N53	100m	5.0M		*A	50		50	8.0m				.67					PC△			
47	4JD1A73	100m	5.0M		#S		2.0	5.0	50m	6.0uØ	5.0	1.0m	32				12				
48	AF202	100m*	5.0M§	2.2m	#J	25		.30	30m	.40uØ	10Ø	3.0mØ	85					ME	R96		
49	AF202S	100m*	5.0M§	2.2m	#J	32		.30	30m	.40uØ	10Ø	3.0mØ	85					ME	R96		
50#	TK20A	100m	6.3M	4.0m	*J	30		30			4.5Ø	1.0m	43					A			
51#	GET884	100m	7.5M	1.7m	#J	15		10	10m	5.0u	6.0	1.0m	70					At	TO5		
52	2N1684	100m	8.0M	1.3m	#	25		12	100m	20u							15p	A	u1		
53	2N1782	100m	8.0M	1.3m	#	30		20	100m		.35Ø	200m	30 †				15p	A△	u1		
54#	OC3K	100m	8.0M△	1.7m	#S	15	10	10		2.0uØ	6.0	1.0m	50 △				14p	A	TO9		
55#	OC4K	100m	8.0M△	1.7m	#S	15	10	10		2.0uØ	6.0	1.0m	80 △				14p	A	TO9		
56#	OC5K	100m	8.0M△	1.7m	#S	15	10	10		2.0uØ	6.0	1.0m	120 △				14p	A	TO9		
57#	TK25A	100m	10.M	4.0m	*J	20		20			4.5Ø	1.0m	63				17p	AB△			
58#	TK34C	100m	10M	2.0m	ØJ	20	6.0	15	250m	10uØ	0.0	100mØ	60 †					A△	R47a		
59	2N624	100m	12M△	1.3m	#J	30	20 Ø		10m	30u	10Ø	2.0m	20 △				3.0pØ	D	R4	G	
60	2N1784	100m	12.M	1.3m	#	30		12	100m	25u	.35Ø	10m	40 †				15p	A△	u1		
61#	OC3N	100m	15.M△	1.7m	#S	15	8.0	10		2.0uØ	6.0	1.0m	50 △				14p	A	TO9		
62#	OC4N	100m	15.M△	1.7m	#S	15	8.0	10		2.0uØ	6.0	1.0m	80 △				14p	A	TO9		
63#	OC5N	100m	15.M△	1.7m	#S	15	8.0	10		2.0uØ	6.0	1.0m	120 △				14p	A	TO9		
64	GT1607	100m	18.M	1.7m	#S	10				25u	5.0Ø	1.0m	60 △				14p	A	TO9		
65#	AFY15	100m	20.M		#	22	12	8.0	50m	10u	6.0Ø	.50mØ	80				10p	A	R60		
66#	OC4-O	100m	21.M△	1.7m	#S	15	6.0	10		2.0uØ	6.0	1.0m	80 △				14p	A	TO9		
67#	OC5-O	100m	21.M△	1.7m	#S	15	6.0	10		2.0uØ	6.0	1.0m	120 △				14p	A	TO9		
68#	OC40	100m	21.M△	1.7m	#S	15	6.0	10		2.0uØ	6.0	1.0m	80 △				14p	A	TO9		
69#	OC50	100m	21.M△	1.7m	#S	15	6.0	10		2.0uØ	6.0	1.0m	120 △				14p	A	TO9		
70#	2SA228	100m	30.M		ØJ	80		.50	10m	50u	6.0	1.0m	70				20p	D	TO17		
71#	NKT618	100m	30.M△		ØJ	50	50 Ø	1.0	30m	10uØ	4.5Ø	1.0mØ	35 △				2.0p	ME	TO1		
72#	2SA427	100m	45.M		ØJ	20			15m	15uØ	6.0Ø	1.0mØ	60				5pØ	D	TO44		
73#	2SA428	100m	50.M		ØJ	20			15m	15uØ	6.0Ø	1.0mØ	80				5pØ	D	TO44		
74	2N1517A	100m	70M§	1.6m	Ø	40	20	1.0	10m	8.0uØ	6.0	1.0m	150	350u	43	140	2.5p	AD	TO7		
75	PADT29	100m	70.M§	588u	#J	25	15		10m	8.0uØ	6.0Ø	1.0m	150					ADØ	TO7		
76	2N2093	100m	75.M§	1.7m	#J	25	25 §	2.0	10m	50u	6.0Ø	1.0m	150	1.0u	4.0k	160	4.0p	ADØ	TO7		
77#	2G417	100m	90.M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 △				3.5pØ	ADt	TO18		
78#	2G413	100m	100M§	1.5m	#J	40		1.0	25m	50u	6.0	1.0m	100				2.5p	AD	TO18		
79	2N1699	100m	100M	1.3m		40					12Ø	1.5mØ	100								
80#	2G414	100m	120M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 △				2.3p	ADt	TO18		
81#	2G415	100m	120M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 △				2.3p	ADt	TO18		
82#	2G416	100m	120M§	1.7m	#J	20	20 §	1.0	10m	8.0uØ	6.0Ø	1.0mØ	50 △				3.5pØ	ADt	TO18		
83#	2SA362	100m	150M§	1.7m	#J	30	25 Ø	.50	30m	30u	6.0Ø	5.0m	70				3.0p	ME	TO44		
84#	ASY67	100m	150M§△	3.3m	ØJ	50	50		50m	10uØ	6.0Ø	10mØ	50 †△				3.0p	ADΔ	TO12		
85#	2SA246	100m	155M			30		.50	30m	30u	6.0Ø	5.0m	70				2.5p	ME	TO44		
86#	2SA247†	100m	200M	1.7m	#J	10		.50	30m	5.0u	.30	20m	125 †				5.5p		TO44		
87	TI363	100m	200M	2.5m	#J	30	30	2.0	50m	3.0uØ	6.0Ø	500u	35 †△	329u	3.4k	192	2.5 Ø	ME	TO58		
88	TI364	100m	200M	2.5m	#J	30	30	2.0	50m	5.0uØ	6.0Ø	500u	20 †△	287u	2.8k	159	2.5 Ø	ME	TO58		
89	PADT30	100m	220M	1.7m	#	25		1.0	10m	10u	12	1.0m	120								
90	40268	100m	250M§△	1.3m	#J	25	15 Ø	1.0	100m	10uØ	10Ø	1.0mØ	20 †△		250		3.5pØ	DM	TO18		
91#	SFT171	100m	250M§	1.7m	#J	30	20		25m	10uØ	9.0Ø	1.5mØ	3.5 †△				2.5pØ	ME	TO33		
92#	SFT172	100m	250M§	1.7m	#J	30	20		25m	10uØ	9.0Ø	1.5mØ	3.5 †△				2.5pØ	ME	TO33		
93#	SFT173	100m	250M§	1.7m	#J	30	20		25m	10uØ	9.0Ø	1.5mØ	7.0 †△				2.5pØ	ME	TO33		
94#	SFT174	100m	250M§	1.7m	#J	30	20		25m	10uØ	9.0Ø	1.5mØ	3.5 †△				2.5pØ	ME	TO33		
95#	2G101	100m	320M§	1.7m	#J	15	15	1.0	20m	10u	5.0Ø	2.0m	20				3.5p	MEØ	TO5		
96#	2G102	100m	400M§	1.7m	#J	15	15	1.0	20m	10u	5.0	2.0m	20				3.5p	ME	TO5		
97#	2SA372†	100m	450M§	2.0m	ØJ	15	15 Ø	2.0	200m	10uØ	1.0Ø	10mØ	25 †				2.0p	EM	TO18		
98	TI445	100m	480M			25			100m	5.0uØ	10Ø	10mØ	10 †△					MEΔ	TO50		
99	2N694	100m	500M	1.3m	#S	30		1.0	50m		6.0Ø	2.0mØ	20	15ub	19	57	1.5p	D			
100	M2	100m	550M*	5.0m	ØJ	25		1.0	12m	20uØ			20				1.4p	ME	R23		
101	GA53194	100m	600M	1.0m	#J	30			30m	5.0uØ	9.0	10mØ	19	7.5ub	6.0	8.0	2.5p	D			
102	TI444	100m	600M			30			100m	5.0uØ	10Ø	10mØ	10 †△					MEΔ	TO50		
103	M1	100m	700M*	5,0m	ØJ	25		1.0	12m	20uØ			20				1.4p	ME	R23		
104	TI443	100m	750M			35			100m	5.0uØ	10Ø	10mØ	10 †△	40ub	3.6	200m		MEΔ	TO50		
105#	AF121S	105m*	270M§	2.3m	#J	32	32 §		10m	8.0uØ							.45pt		R90	J	
106#	2SA310	106m	650M§	3.3m	ØJ	32		.30	25m	13uØ	12	1.0m	250				700f	AD	TO7		
107#	ASY14-1	110m*		2.5m	ØJ	80	40	10	250m		.50Ø	250mØ	30 †					A	R43		
108#	ASY14-2	110m*		2.5m	ØJ	80	40	10	250m		.50Ø	250mØ	40 †					A	R43		
109#	ASY14-3	110m*		2.5m	ØJ	80	40	10	250m		.50Ø	250mØ	70 †					A	R43		
110#	OC307-1	110m*		2.5m	ØJ	32	18	10	250m		.50Ø	250mØ	30 †					A	R43		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1#	OC307-2	110m*		2.5m	ØJ	32	18	10	250m		.50Ø	250mØ	40 †					A	R43	
2#	OC307-3	110m*		2.5m	ØJ	32	18	10	250m		.50Ø	250mØ	70 †					A	R43	
3#	OC309-1	110m*		2.5m	ØJ	60	30	10	250m		.50Ø	250mØ	30 †					A	R43	
4#	OC309-2	110m*		2.5m	ØJ	60	30	10	250m		.50Ø	250mØ	40 †					A	R43	
5#	OC309-3	110m*		2.5m	ØJ	60	30	10	250m		.50Ø	250mØ	70 †					A	R43	
6#	OC303	110m	700k	2.2m	ØJ	32	15	10	50m	10uØ	5.0Ø	1.0m	26	18u	1.0k	3.0		A	R41	
7#	OC304/1	110m	800k	2.2m	ØJ	32	15	10	50m	10uØ	5.0Ø	1.0m	40	22u	1.2k	4.0		A	R41	
8#	OC306/1	110m	800k	2.2m	ØJ	32	15	10	50m	10uØ	5.0Ø	1.0m	40	22u	1.2k	4.0		AØ	R41	
9#	OC304/2	110m	900k	2.2m	ØJ	32	15	10	50m	10uØ	5.0Ø	1.0m	65	35u	1.6k	6.5		A	R41	
10#	OC306/2	110m	900k	2.2m	ØJ	32	15	10	50m	10uØ	5.0Ø	1.0m	65	35u	1.6k	6.5		AØ	R41	
11#	OC304/3	110m	1.1M	2.2m	ØJ	32	15	10	50m	10uØ	5.0Ø	1.0m	100	45u	2.8k	8.5		A	R41	
12#	OC306/3	110m	1.1M	2.2m	ØJ	32	15	10	50m	10uØ	5.0Ø	1.0m	100	45u	2.8k	8.5		AØ	R41	
13#	OC305/1	110m	1.5M	2.2m	ØJ	32	8.0	10	50m	10uØ	5.0Ø	1.0m	150	60u	4.5k	13		A	R41	
14#	OC305/2	110m	2.1M	2.2m	ØJ	32	8.0	10	50m	10uØ	5.0Ø	1.0m	230	90u	6.8k	16		A	R41	
15#	ASZ20N	110m	40M§△	1.6m	ØJ	40	15		25m	50u	6.0Ø	1.0mØ	45 △					AD	TO44	C
16	A1377	110m	300M§	2.5m	#J	35	20 #	.50	10m	10uØ	6.0	1.0m	70				2.0p	ADØ	TO12	
17	AFY37	112m	600M§	1.3m	#J	32	32 Ø	.30	20m	.40uØ								E	TO72	
18	2N2873	115m	300M§△	1.5m	#S	35	35 #	.30	10m	12uØ	6.0Ø	1.0mØ	40 †				700f∅		R103	G
19	2N22	120m			*S	100	100	40	20m	2mØ								PC△		
20	2N24	120m			*S	20	30	5.0	25m	1mØ								PC		
21	2N52	120m			*A	50		50	8.0m									PC		
22	2N247/33	120m		1.7m	#J	40	40	.50	10m	12u	9.0Ø	1.0mØ	60				3p∅	D	TO33	
23	2N1003	120m		1.7m	#J	35	20	.50		15uØ	9.0Ø	1.0m	10 △				5.0			
24	2N1004	120m		1.7m	#J	35	20	.50		15uØ	9.0Ø	1.0m	10 △				5.0			
25	2N1285	120m		16m	#S	40	40 #	2.5	10m	12uØ	12Ø	1.5mØ	30 †△				3.0p∅		TO33	G
26#	2SB460	120m				40	25 §	2.5	50m	6.0u	6.0Ø	1.0m	180	78u	5.2k	1.1		A	TO1	
27#	OC3L	120m		2.0m	#J	30	30		120m	10uØ	6.0	1.0m	70					A	TO9	
28#	OC3LP	120m		2.0m	#J	30	30		120m	10uØ	.50	100m	70					A	TO9	
29#	OC3LR	120m		2.0m	#J	30	30		120m	10uØ	6.0	1.0m	70					AØ	TO9	
30#	OC4L	120m		2.0m	#J	30	30		120m	10uØ	6.0	1.0m	150					A	TO9	
31#	OC4LP	120m		2.0m	#J	30	30		120m	10uØ	.50	100m	150					A	TO9	
32#	OC4LR	120m		2.0m	#J	30	30		120m	10uØ	6.0	1.0m	150					AØ	TO9	
33#	OC5L	120m		2.0m	#J	30	30		120m	10uØ	6.0	1.0m	150					A†	TO9	
34#	OC5LP	120m		2.0m	#J	30	30		120m	10uØ	.50	100m	150					A†	TO9	
35#	OC5LR	120m		2.0m	#J	30	30		120m	10uØ	6.0	1.0m	150					AØ	TO9	
36#	2V633	120m	.80M	2.5m		30			200m	10u	6.0	10m	40					PA		
37#	2V363	120m	1.0M	2.5m		25			100m	15u	6.0	1.0m	50					PA		
38#	2V632	120m	1.0M	2.5m		25			200m	10u	6.0	10m	80	18u	1.4k	4.3		PA		
39#	CP398	120m	1.0M		ØJ	105		50				5.0m	30 †△					AA	TO5	
40#	2V631	120m	1.2M	2.5m		25			200m	10u	6.0	10m	120					PA		
41	GA53213	120m	1.4M	2.0m	#J	30		30	50m	15u	5.0	1.0m	24				18p	A		
42#	2V362	120m	1.5M	2.5m		25			100m	15u	6.0	1.0m	120	18u	1.4k	4.3		PA		
43#	GET896	120m	1.7M§△	2.0m	#J	20	15		100m	5.0uØ	1.0Ø	25mØ	42 †					A	TO5	A
44#	GET897	120m	1.7M§△	2.0m	#J	20	15		100m	5.0uØ	1.0Ø	25mØ	65 †					A	TO5	A
45#	GET898	120m	1.7M§△	2.0m	#J	20	15		100m	5.0uØ	1.0Ø	25mØ	110 †					A	TO5	A
46	2N21	120m	2.0M		#S	100		100	40m	1.1mØ	10	1.0m						PC		
47	2N21A	120m	2.0M		#A	100		99	40m									PC		
48#	AT/AF1	120m	2.0M	2.2m	#	16		12	100m	10u	6.0	1.0m	60				15p	A	TO1	
49#	AT/AF2	120m	2.0M	2.2m	#	16		12	100m	10u	6.0	1.0m	70				15p	A	TO1	
50#	XA103	120m	2.0M△	3.0m	*J	12		1.0		5.0u	5.0	1.0mØ	35				14p	A	RO35	
51	GA53104	120m	2.9M	2.0m	#J	10		20	50m				45				18p	AA		
52#	2SA208†	120m	3.0M	2.0m	#J	20		12	400m	20u	.30	200m	15 △†				25p		TO5	
53	GA52829	120m	3.3M	2.0m	#J	30		20	50m		5.0	1.0m	50				18p	AA		
54	GA53149	120m	3.3M	2.0m	#J	35		35	50m	10u	5.0	1.0m	49				18p	AA		
55#	2SA211†	120m	4.0M	2.0m	#J	18		10	100m	20u	.30	100m	30 △†				20p		TO5	
56#	2SA212†	120m	4.0M	2.0m	#J	25		15	100m	20u	.30	100m	30 △†				20p		TO5	
57	SYL1697	120m	4.0M△	2.0m	#S	18		8.0	100m	5.0u	.30	1.0m	30 †				20p	AA	TO5	
58#	XA104	120m	4.0M△	3.0m	*J	12		1.0		5.0u	5.0	1.0mØ	60				14p	A	RO35	
59#	2SA209†	120m	5.0M	2.0m	#J	20		12	400m	20u	.30	200m	30 △†				25p		TO5	
60#	XA101	120m	5.0M	3.0m	*J	20		12		5.0u	5.0	1.0mØ	35				14p	AA	RO35	
61#	XA111	120m	5.0M	3.0m	*J	20		12		5.0u	5.0	1.0mØ	35				14p	AA	RO7	
62#	GET880	120m	6.5M§	2.0m	#J	20	15		100m	5.0uØ	6.0Ø	1.0mØ	110 ∅	300nb	28	4.0		AØ	TO5	A
63#	GET881	120m	6.5M§	2.0m	#J	20	15	12	500m	5.0uØ	.25Ø	5.0mØ	150 †					A	TO5	A
64#	GET887	120m	6.5M§	2.0m	#J	20	15		100m	5.0uØ	6.0Ø	1.0mØ	110 ∅					A	TO5	A
65#	GET891	120m	6.5M§	2.0m	#J	25	20	12	500m	5.0uØ	.25Ø	5.0mØ	150 †					A	TO5	A
66#	2SB482	120m	7.0M§	2.0m	#J	35	25 §	12	50m	6.0uØ							6.5p	A	TO1	A
67#	AT/RF1	120m	7.0M	2.2m	#	16		12	100m	10u	6.0	1.0m	90				12p	A	TO1	
68	SYL1690	120m	7.0M△	2.0m	#J	25		15	200m	30u	.20Ø	20mØ	110 †					AA	TO5	
69	SYL1717	120m	7.0M△		#J	25		15	200m	20u			100 †				20p	AA	TO5	
70	GA52837	120m	7.5M		#S	100		100	40m	2.2mØ								PC		
71#	GET889	120m	7.5M§	2.0m	#J	20	15		100m	5.0uØ	6.0Ø	1.0mØ	110 ∅	300nb	28	4.0		AØ	TO5	A
72#	XA102	120m	8.0M	3.0m	*J	20		12		5.0u	5.0	1.0mØ	60				14p	AA	RO35	
73#	XA112	120m	8.0M	3.0m	*J	20		12		5.0u	5.0	1.0mØ	60				14p	AA	RO7	
74#	AT/S13	120m	9.0M		#	16		12	100m	5.0u		15m	100 †				12p	A	TO1	
75#	2SA210†	120m	10.M	2.0m	#J	20		12	400m	5.0u	.30	200m	45 △†				25p		TO5	
76	40263	120m#	10M	2.6m	#J	20	18 §	2.5	50m	12u	6.0Ø	1.0mØ	160					A	TO1	A
77	40490	120m#Ø	10.M	1.6m	#A	20	18	2.5	20m	12u	6.0Ø	1.0mØ	300					A	TO1	A
78#	GET888	120m	10.M§	2.0m	#J	20	15		100m	5.0uØ	6.0Ø	1.0mØ	220 ∅					A	TO5	A
79#	GET882	120m	12M§	2.0m	#J	20	15	12	500m	5.0uØ	.25Ø	5.0mØ	150 †					A	TO5	A
80#	GET890	120m	12M§	2.0m	#J	20	15		100m	5.0uØ	6.0Ø	1.0mØ	220 ∅	250nb	28	5.0		AØ	TO5	A
81#	GET892	120m	12M§	2.0m	#J	25	20	12	500m	5.0uØ	.25Ø	5.0mØ	150 †					A	TO5	A
82#	2SA217†	120m	14.M	2.0m	#J	25		12	100m	5.0u	.30	100m	30 △†				20p		TO5	
83#	AT/RF2	120m	15.M	2.2m	#	16		12	100m	10u	6.0	1.0m	120				12p	A	TO1	
84	SYL1684	120m	17M△		#S	40		1.0		50u			50 †	2.0ub				DA		
85#	GET885	120m	20.M§	2.0m	#J	20	15	12	500m	5.0uØ	.25Ø	5.0mØ	150 †					A	TO5	A
86#	GET895	120m	20.M§	2.0m	#J	25	20	12	500m	5.0uØ	.25Ø	5.0mØ	220 †					A	TO5	A
87	GT5116	120m	20M§	2.0m		15		2.0		10u	1.0Ø	40m	20 †				8.0p	D	TO9	
88	2N643†	120m	30M§	3.0m	ØA	30	29 Ø	2.0	100m	10uØ	7.0Ø	5.0mØ	45 †				2.0p	D	TO9	A
89#	2SA75	120m	30M	2.4m	ØJ	20		.50	50m	50u	3.0	20m	70				6.0p∅	D	TO44	G
90#	2SA475	120m	30M	2.0m	ØJ	20		.50	50m	12uØ	6.0Ø	1.0m	70				2.2p	D	TO1	
91	40004	120m	30M	1.6m	ØA	40	40 §	.50	10m	15u	9.0Ø	1.0mØ	80				2.0p	D	TO44	
92#	XA141	120m	30.M§			30		2.0	100m	10uØ	7.0Ø	5.0mØ	45 †				2.0p	DA	TO33	
93	2N1524/33	120m	33.M	2.0m	#A	24		.50	10m	16u	12Ø	1.0m	60				2.0p	D	TO33	
94	2N1638/33	120m	40.M	2.0m	#A	34		1.0	10m	7.0uØ	12Ø	1.0m	75				2.0p	D	TO33	
95#	2SA370	120m	40.M	2.0m	#J	75		1.0	50m	12uØ	9.0Ø	1.0m	70				2.5p	D	X35	
96#	AF193	120m	40.M			20			10m									D	TO44	
97	GT5117	120m	40.M§	2.0m		20		2.0		10u	1.0Ø	40m	20 †				8.0p	D	TO9	
98	2N1631	120m	45.M	2.0m	#A	34		1.0	10m	16uØ	12Ø	1.0m	80				2.0p	D	TO40	
99	2N1637/33	120m	45.M	2.0m	#A	34		1.5	10m	5.0uØ	12Ø	1.0m	80				2.0p	D	TO33	
100	2N1639/33	120m	45.M	2.0m	#A	34		1.0	10m	7.0uØ	12Ø	1.0m	75				2.0p	D	TO33	
101	2N644†	120m	50M§	3.0m	ØA	30	29 Ø	2.0	100m	10uØ	7.0Ø	5.0mØ	45 †				2.0p	D	TO9	A
102#	XA142	120m	50.M§			30		2.0	100m	10uØ	7.0Ø	5.0mØ	45 †				2.0p	DA	TO33	
103#	2SA474	120m	70.M	1.8m	#J	50		.50	50m	12uØ	6.0Ø	1.0m	50				2.2p	D	TO1	
104	2N645†	120m	75M§	3.0m	ØA	30	29 Ø	2.0	100m	10uØ	7.0Ø	5.0mØ	45 †				2.0p	D	TO9	
105#	XA143	120m	75.M§			30		2.0	100m	10uØ	7.0Ø	5.0mØ	45 †				2.0p	DA	TO33	
106#	2SA279	120m*	80M	4.0m	ØJ	30		.50	30m	6.0uØ	2.0Ø	10mØ	100 †				3.5p	AD	TO7	
107#	2SA280	120m*	80M	4.0m	ØJ	30		.50	30m	6.0uØ	2.0	10m	125 †				1.5p	AD	TO7	
108#	2SA281	120m*	80M	4.0m	ØJ	50		.50	30m	6.0uØ	2.0	10m	125 †				1.5p	AD	TO7	
109	A1383	120m	80.M§	2.2m	#J	32	32	1.2	30m	3.0uØ	10	1.0m	20 †△					PDØ	TO12	
110	A1384	120m	80.M§	2.2m	#J	32	32	1.2	30m	3.0uØ	6.0	1.0m	20 †△					PDØ	TO39	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1	2N384/33	120m	100M			#S	40	40	.50	10m	50u	12Ø	1.5mØ	60		400		3pØ	D	TO33		
2#	2SA301	120m*	100M	4.0m		ØJ	30		.50	30m	6.0uØ	1.0	10m	125 †					AD	TO7		
3	40005	120m	100M	1.6m		ØA	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	90				2.0p	D	TO44		
4#	SFT155	120m	100M	2.0m		#J	35		.50	10m	50u	12Ø	1.5mØ	60				1.8p	D			
5#	XA131	120m	100M	1.6m		#A	40		.50	10m	12uØ	12Ø	1.5mØ	60				2.0p	DΔ	TO33		
6#	AF185	120m	110M	2.2m		#J	32	32	1.2	30m	3.0u	10	1.0m	40 †Δ				3.5p	AD	TO12		
7	2N1023	120m	120M	1.6m		#A	40	40 §	.50	10m	12uØ	12Ø	1.5m	60				2.0p	D	TO44	G	
8	40006	120m	120M	1.6m		ØA	40	40 §	.50	10m	12uØ	12Ø	1.5mØ	90				2.0p	D	TO44		
9#	AF182	120m	120M§Δ	2.0m		#J	15		.50	10m	15u	12Ø	5.0mØ	70 Δ				2.0p	D	TO5		
10#	SFT163	120m	120M§Δ	2.0m		#S	15		.50	10m	15u	12Ø	5.0mØ	70 Δ				3pØ	D	TO44	A	
11	2N2494	125m		1.7m		#S	40	40 Ø		10m	6.0uØ	6.0Ø	1.0mØ	25 †Δ				2pØ	AØ	TO7	H	
12	2N2495	125m		1.7m		#S	40	40 Ø		10m	6.0uØ	6.0Ø	1.0mØ	25 †Δ				2pØ	Ø	TO12	G	
13#	2SA173	125m	4.0m	2.5m		ØJ	20		10	50m	8.0u	1.0Ø	10m	60 †				13p	A	TO5		
14#	GTE1	125m	300k	2.5m		ØJ	300m			10m	12u	2.0	3.0mØ	47	80u	800	5.0		A†			
15#	GTE2	125m	300k	2.5m		ØJ	30		10	250m	10u	6.0Ø	10mØ	22					A†			
16#	GTV	125m	300k	2.5m		ØJ	30		1.0	10m	12u	2.0	500uØ	30	23u	2.2k	9.0		A†			
17	2N109/2N217EQ	125m	350k	2.5m		ØJ	32		10	70m	4.5uØ	6.0	10m	70					A			
18	2N217EQ	125m	350k	2.5m		ØJ	32		10	70m	4.5uØ	6.0	10m	70					A			
19#	NKT247	125m	.35M			ØJ	60			250m		1.5	80m	60					A	R65		
20#	GFT31	125m	400k	2.5m		ØJ	15		10		20u	3.0	30m	30					A	TO30		
21#	GFT31/15	125m	400k	2.5m		ØJ	15		10	300m	20u	3.0	30m	30					A	TO30		
22#	GFT31/30	125m	400k	2.5m		ØJ	30		10		20u	3.0	30m	30					AΔ	TO30		
23#	GFT31/60	125m	400k	2.5m		ØJ	60		10		20u	3.0	30m	30					AΔ	TO30		
24#	GFT32	125m	500k	2.5m		ØJ	15		10		20u	3.0	50m	50					A	TO30		
25#	GFT32/15	125m	500k	2.5m		ØJ	15		10	300m	20u	3.0	50m	50					A	R21		
26#	GFT32/30	125m	500k	2.5m		ØJ	30		10		20u	3.0	50m	50					AΔ	R21		
27#	GFT32/60	125m	500k	2.5m		ØJ	60		10		20u	3.0	50m	50					AΔ	R21		
28#	GFT34	125m	600k	2.5m		ØJ	15		10		20u	3.0	75m	75					A	TO30		
29#	GFT34/15	125m	600k	2.5m		ØJ	15		10	300m	20u	3.0	75m	75					A	R21		
30#	GFT34/30	125m	600k	2.5m		ØJ	30		10		20u	3.0	75m	75					AΔ	R21		
31#	GFT34/60	125m	600k	2.5m		ØJ	60		10		20u	3.0	75m	75					AΔ	R21		
32#	V10/15A	125m	600k	4.0m		ØJ	10		10	30m		4.5	1.0m	20	1.3u	45	7.7	35p	A			
33#	2SB161	125m	650k	2.5m		ØJ	30		10	100m	10uØ	1.0Ø	50mØ	50 †				30p	A	TO5		
34#	NKT246	125m	.70M			ØJ	15			75m		6.0	1.0m	75					AØ	R65		
35#	V10/30A	125m	700k	4.0m		ØJ	10		10	30m		4.5	1.0m	40	1.0u	59	9.7	35p	A			
36	OC75N	125m	750k	2.5m		ØJ	30	30		50m	5.0u	2.0Ø	3.0m	90					A	TO1	A	
37#	TS13	125m	750k	2.5m		ØJ	30			25m	10u	9.0	1.0m	52	12u	1.8k			A			
38#	TS14	125m	750k	2.5m		ØJ	30			25m	10u	9.0	1.0m	32	12u	1.3k			A			
39#	2SB163	125m	800k	2.5m		ØJ	30		10	100m	10uØ	1.0Ø	50mØ	70 †				30p	A	TO5		
40#	OC307	125m	900k	2.5m		ØJ	32	32 §		250m	15uØ	.70Ø	125mØ	25 †Δ					AΔ	R43		
41#	OC309	125m	900k	2.5m		ØJ	60	60 §		250m	10uØ	.70Ø	125mØ	25 †Δ				1.0p	AΔ	R43		
42#	2SB165	125m	1.0M	2.5m		ØJ	30		10	100m	10uØ	1.0Ø	50mØ	100 †				30p	A	TO5		
43	40253	125m#	1.0M§	3.5m		#S	25	25	2.5	500m	14uØ	1.0Ø	400mØ	75 †					A	TO1	A	
44#	2SB101	125m	1.2M	2.5m		ØJ	30		10	50m	10u	6.0Ø	1.0m	60	300nb	30	2.5		A	TO5		
45#	2SB103	125m	1.2M	2.5m		ØJ	30		10	100m	10u	1.0Ø	50mØ	70 †					A	TO5		
46#	V10/50A	125m	1.2M	4.0m		ØJ	10		10	30m		4.5	1.0m	75	770n	65	11	35p	A			
47#	V10/50B	125m	1.2M	2.5m		Ø	10			30m	40u	4.5	1.0m	75								
48#	2SB98	125m	1.5M			ØJ	30			50m	10uØ	6.0Ø	1.0m	120				30p	A	TO5		
49#	2SB99	125m	1.5M			ØJ	30			50m	10uØ	6.0Ø	1.0m	120				30p	A	TO5		
50#	ASZ11	125m	3.0M	2.5m		ØJ	20		20	200m	3.0u	0.0	15m	40 Δ				20p	Δ			
51#	NKT143	125m	3.0MΔ	2.5m		ØJ	15	15 Ø	12	25m	5.0uØ	4.5Ø	1.0m	50	1.0ub	65	7.0	35pØ	A	TO5		
52#	NKT144	125m	3.0MΔ	2.5m		ØJ	15	15 Ø	12	25m	5.0uØ	4.5Ø	1.0m	50	1.0ub	65	7.0	35pØ	AØ	TO5		
53#	ASY31	125m	4.0M§Δ	2.5m		ØJ	25	15	20	200m#	3.0uØ	0.0	20m	30 †Δ				16p$	A	R9		
54#	ASZ12	125m	5.5MØ	2.5m		ØJ	20		20	200m	3.0u	0.0	15m	60 Δ				20p	Δ			
55#	2SA26	125m	6.0M			ØJ	20			50m	12uØ	6.0	1.0m	60				15p	A	TO5		
56#	ASY32	125m	6.0M§Δ	2.5m		ØJ	25	15	20	200m#	3.0uØ	0.0	20m	50 †Δ				16p$	A	R9		
57#	2SA171	125m	8.0M	2.5m		ØJ	20		10	50m	8.0u	1.0Ø	1.0m	60 †				12p	A	TO5		
58#	NKT132	125m	8.0M			ØJ	15			25m			1.0mØ	40						TO22		
59#	NKT142	125m	8.0MΔ	2.5m		ØJ	15	15 Ø	12	25m	5.0uØ	4.5Ø	1.0m	80	1.0ub	65	7.0	35pØ	A	TO5		
60#	2SA167	125m	9.0M	2.5m		ØJ	20	18 §	10	50m	8.0u	6.0Ø	1.0m	70	80ub	28	13	15p	A	TO5		
61	TIA03	125m	10.M§	1.7m		#S	25	20	25	150m	5.0u	6.0Ø	1.0mØ	45 Δ					A	TO39		
62	TIA04	125m	10.M§	1.7m		#S	25	20	25	150m	5.0u	6.0Ø	1.0mØ	100 Δ					A	TO39		
63	TIA05	125m	10.M§	1.7m		#S	25	15	20	150m	5.0u	6.0Ø	1.0mØ	30 Δ					A	TO39		
64#	2SA169	125m	15M	2.5m		ØJ	20		10	50m	8.0u	1.0Ø	10m	70 †				11p	A	TO5		
65#	NKT131	125m	15.M			ØJ	15			25m			1.0mØ	50						TO22		
66#	NKT141	125m	15MΔ	2.5m		ØJ	15	15 Ø	12	25m	5.0uØ	4.5Ø	1.0m	150	1.0ub	65	7.0	35pØ	A	TO5		
67#	2SA358	125m	20.MΔ	2.1m		#J	75		1.0	50m	12uØ	9.0Ø	1.0m	90				3pØ	D	X35		
68#	2SA78	125m	25M	2.5m		ØJ	40		2.0	400m	12u	6.0	1.0m	70					D	TO44		
69#	2SA248†	125m	25M	2.5m		ØJ	40	40	2.0	200m	8.0uØ	1.0	200m	50 †				3.5p	DΔ	TO44		
70#	2SA478†	125m	40.M	2.1m		#J	40	40 Ø	2.0	400m	8.0uØ	1.0Ø	400mØ	60 †					D	TO1	A	
71#	2SA479	125m	40.M	2.1m		#J	40	40 Ø	2.0	200m	8.0uØ	1.0Ø	200mØ	60 †				3.0p	D	TO1		
72#	2SA74	125m	70M	2.5m		ØJ	50		.50	5.0m	50u	6.0	5.0m	70					D	TO44		
73#	2SA401	125m	230M				30		.50	40m	30u	6.0Ø	1.0m	70				3.0p	ME	TO44		
74	SYL3613	125m	400M§Δ	1.7m		#S	25	20 Ø	2.0	100m	2.0uØ	6.0Ø	2.0mØ	50 Δ	180uØ	2kØ			ME	R38		
75#	AC122	130m		2.0m		#J	30	18 *	12	200m	15uØ	6.0Ø	2.0mØ	100 *	52m	2.0k	5.5	21p	A	R48a	A	
76#	AC122-30	130m		2.0m		#J	45	32 *	12	200m	15uØ	6.0Ø	2.0mØ	100 *	52m	2.0k	5.5	21p	A	R48a	A	
77	CK870	130m	.50M	2.5m		#J	25		25	150m		6.0	1.0m	12					FB			
78	CK871	130m	.60M	2.5m		#J	20		20	150m		6.0	1.0m	20					FB			
79#	TS9	130m	.60M	3.6m		*J	56		20			.70Ø	10m	70					A			
80#	TS17	130m	.60M	3.7m		*J	30		36			.90Ø	1.0mØ	90	15u				A			
81	2N138A	130m	1.2M	2.5m		#J	12			150m	6.0uØ	6.0	1.0m	140					F			
82#	XA151	130m	5.0M	3.3m		*J	15		12		10u	.25Ø	50mØ	35 †					AΔ	RO7		
83#	XA152	130m	9.0M	3.3m		*J	15		12		10u	.25Ø	50mØ	100 †					AΔ	RO7		
84	2N3074	140m		3.1m		ØJ	25	25 §		20m	10uØ	5.0Ø	14m	14 †Δ				3.0p	ADØ	TO12	G	
85	2N3075	140m		3.1m		ØJ	35	25 §	.50	20m	10uØ	12Ø	3.0mØ	20 †Δ		100		3.0pØ	AD	TO12	G	
86#	TK21B	140m	2.0M	4.0m		*J	30		30			30	.50mØ	23					AB			
87#	TK26B	140m	2.0M	4.0m		*J	30		30			.50Ø	20m	23					AB			
88#	2G108	140m	2.5M	3.3m		#J	25	16 §		100m	16uØ	5.0	1.0m	55	600nb	28	5.0	25p	AØ	TO5		
89#	2G201	140m	2.5M	4.0m		#S		13		100m	12u	5.0	1.0m	25 †	1.0ub	30	4.5	25p	A			
90#	2SB48	140m	2.5M			*J	16			100m	16u	1.0Ø	20m	42 †	.60u	28	8.0	25p	A†	TO5		
91#	TK24B	140m	2.5M	4.0m		*J	30		30			.50Ø	40m	32					AB			
92#	TK27B	140m	2.5M	4.0m		*J	30		30			.50Ø	40m	32					AB			
93#	2G109	140m	3.0M	3.3m		#J	25	16 §		100m	16uØ	5.0	1.0m	100	500nb	28	5.0	25p	AØ	TO5		
94#	2G202	140m	3.0M	4.0m		#S		13		100m	12u	5.0	1.0m	40 †	800nb	29	5.0	25p	A			
95#	2SB49	140m	3.0M			*J	16			100m	16u	1.0Ø	20m	83 †	.60u	28	8.0	25p	A†	TO5		
96#	2SB50	140m	3.5M			*J	16			100m	16u	1.0Ø	20m	131 †	.60u	28	8.0	25p	A†	TO5		
97#	TK20B	140m	6.3M	4.0m		*J	30		30			4.5Ø	1.0m	43				17p	AB			
98#	TK25B	140m	10.M	4.0m		*J	20		20			4.5Ø	1.0m	63				17p	AB			
99#	AFY40R	140m	600M§	2.2m		#J	20	15	.30	10m	8.0u	6.0	2.0m	55				.25p†	EMØ	R96	G	
100	2N109/5	150m				ØA	25		12	70m	14u	1.0Ø	50mØ	75					AΔ	TO5		
101	2N725†	150m		2.0m		#J	15	12 Ø	2.0	50m	3.0uØ		10mØ	20 †Δ				5.0p	DME	TO18	AØ	
102	2N781†	150m		2.0m		#J	15	15 Ø	2.5	200m	3.0uØ	.22Ø	10mØ	25 †Δ						TO18	AØ	
103	2N1646	150m				#J	15	12 Ø	2.0	50m	100u	.40Ø	10mØ	20 Δ†					ME	TO18		
104	2N1853/18	150m		2.5m		#J	18		2.0	100m	4.2u	.40Ø	6.0mØ	30 †Δ						TO18		
105	2N1960†	150m				#J	15	15 Ø	2.5	200m	3.0uØ	.22Ø	10mØ	25 †Δ						TO46	AØ	
106	2N1960/46†	150m		2.0m		#J	15	15	2.5	200m	100u	.22Ø	10mØ	25 †Δ					EΔ	TO46		
107	2N1961†	150m		2.0m		#J	12	12 Ø	1.0	200m	3.0uØ	.25Ø	10mØ	20 †Δ						TO46	AØ	
108	2N1961/46†	150m		2.0m		#J	12	12	1.0	200m	100u	.25Ø	10mØ	20 †Δ					EΔ	TO46		
109	2N2022	150m		2.0m		#J	15		3.5	50m	3.0u	.50	10m	35				8.0p	Δ	TO18		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T MAX	E MAX	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C O E A D E
1	2N2860	150m		2.0m		#J	18	7.0	2.0	150m		.40Ø	40mØ	40 †Δ				4.0pØ	Δ	TO18	AØ
2#	2SB76	150m				#J	12		2.5	70m	14u	6.0Ø	1.0m	55	21.u	1.9k	3.0		A	TO1	
3#	2SB78	150m				#J	12		2.5	70m	14u	1.5Ø	50m	70 †					A	TO1	
4#	2SB153	150m				#J	12		2.5	70m	14u	3.0Ø	1.0m	70	35u	2.2k	5.0		A		
5#	2SB154	150m				#J	12		2.5	70m	14u	1.5Ø	50m	70 †					A		
6#	2SB155	150m					16		2.5	300m	14u	4.0Ø	1.0m	30					A	TO1	
7#	2SB328	150m				#J	15			300m	10u	1.0Ø	20mØ	80 †					A	TO1	
8#	2SB329	150m				#J	15			300m	10u	1.0Ø	20mØ	150 †					A	TO1	
9#	2SB350	150m					25	25 §		50m	20u	1.5Ø	30mØ	100					A	TO1	
10	CQ1	150m				*A	40			10m	20uØ			9.0							
11	GT34N	150m		2.0m		#S	100		10	200m	450u	4.5Ø	1.0m	18	500nb	40	4.0		AΔ	TO5	A
12	GT74	150m		2.0m		#S	25		10		25u	5.0Ø	1.0m	75	500nb	40	5.0	35	A	TO5	A
13	GT81	150m		2.0m		#S	25		10		25u	5.0Ø	1.0m	75	500nb	40	5.0	35	A	TO5	A
14	GT82	150m		2.0m		#S	25		10		25u	5.0Ø	1.0m	150	500nb	40	8.0	35	A	TO5	
15	GT222	150m		2.0m		#S	12			200m	20u	5.0Ø	1.0m	20	500nb	40		35	A	TO5	
16#	MDS37†	150m				#S	15	15 Ø	1.5		5.0uØ	.30Ø	40mØ	20 †Δ					MDΔ	TO18	Ø
17	SYL2189	150m				#J	12		1.0	50m	3.0uØ	.50Ø	10mØ	20 Δ					ME	u1	
18	TI376	150m					20			150m	15u	1.0Ø	50mØ	105 †						R44	
19	TI377	150m					20			150m	20u	1.0Ø	50mØ	53 †						R44	
20#	TP1	150m				ØS	30			30m	10uØ		.05m						PC		
21	USAF505ES105	150m		2.0m		#J	15	6.0	5.0	100m	10u	1.0Ø	400uΔ	25 #†Δ					DΔ	R99	
22	USAF512ES040P	150m		2.0m		#S	40	16	5.0	100m	10uØ	1.0Ø	400uΔ	25 †Δ					DEΔ	R99	
23#	XB102	150m		3.0m		*J	35		12		10u	5.0	1.0mØ	30	13.u	1.0k	2.0		AΔ	RO35	
24#	XB103	150m		3.0m		ØJ	35		12		10u	5.0	1.0mØ	66	21u	2.2k	4.6		AΔ	R35	
25#	XB104	150m		3.0m		ØJ	20		12		10u	5.0	1.0mØ	30		1.0k			AΔ	R35	
26#	XB112	150m		3.0m		*J	35		12		10u	5.0	1.0mØ	30	13.u	1.0k	2.0		AΔ	RO7	
27#	XB113	150m		3.0m		ØJ	35		12		10u	5.0	1.0mØ	66	21u	2.2k	4.6		AΔ	R7	
28	2N34/5	150m	400k	3.0m		ØJ	40			100m	50u	6.0Ø	1.0mØ	75	30u	2.5k	6.0		A	TO5	
29	2N462	150m	500kΔ	3.3m		ØJ	40		40	200m	35u	.50Ø	200mØ	45 Δ					AΔ	TO25	
30#	ASY51	150m	500kΔ	3.0m		ØJ	60	20				0.0	10mØ	30 Δ					Δ	R47	
31#	ASY71	150m	500k	3.0m		ØJ	100	35			100u	0.0	10mØ	30 †Δ					Δ	R47	
32	T1796	150m	.50MΔ	2.5m		#J	35		35	200m	35u	.50Ø	200m	45 †						TO9	
33#	TK44C	150m	500kΔ	3.3m		Ø	60		40			.30Ø	10mØ	30 †					A	R47	
34#	TK48C	150m	500kΔ	3.3m		ØJ	60	20	40		1.7u*	.30Ø	80mØ	20 †Δ					A	R47	
35#	2S34	150m	.60M			#S	20			150m	15u			70							
36#	2SB136	150m	.80M	2.5m		#J	25	25 Ø	12	150m	10u	1.5Ø	50mØ	120 †					A	TO1	A
37#	2SB136A	150m	.80M	2.5m		#J	60	40 §	12	300m	10uØ	1.5Ø	50mØ	120 †					A	TO1	A
38#	2SB457	150m	.80M	2.5m		#J	20	20 Ø	2.5	500m	15uØ	1.0Ø	150mØ	110 †					A	TO1	A
39#	2SB457A	150m	.80M	2.5m		#J	32	32 Ø	6.0	500m	15uØ	1.0Ø	150mØ	110 †					A	TO1	A
40#	2SB43A	150m	1.0M	3.0m		ØJ	45	45 §	12	150m	14uØ	1.0Ø	50mØ	70 †				35p	A	TO1	A
41#	2SB94	150m	1.0M	3.0m		ØJ	25		12	50m	14u	6.0	1.0m	150	200nb	30	2.5		A	TO1	
42#	2SB291	150m	1.0M	3.0m		ØJ	30	25 §	12	150m	10uØ	6.0Ø	1.0m	100	30u	4.2k	6.0	35p	A	TO5	
43#	2SB292	150m	1.0M	3.0m		ØJ	30	25 §	12	150m	100nØ	1.0Ø	50mØ	80 †				35p	A	TO5	
44#	2SB292A	150m	1.0M	3.0m		ØJ	60	60 §	12	150m	10uØ	1.0Ø	50mØ	80 †				35p	A	TO5	A
45#	2SB315	150m	1.0M	2.5m		#J	16	16 Ø	6.0	300m	14uØ	3.0Ø	1.0mØ	50	20u	1.1k	1.5		A	TO1	
46#	2SB316	150m	1.0M	2.5m		#J	16	16 Ø	6.0	300m	14uØ	1.0Ø	150mØ	60 †					A	TO1	
47	4JD1A17	150m	1.0M	2.5m		#S	45			50m	8.0u	5.0	1.0m	40				40p	F		
48#	TF66	150m	1.0M	3.3m		ØJ	16	12	10	300m	18u	.50Ø	5.0mØ	45	135u	500	8.0	40p	A	R118	
49#	TF66/30	150m	1.0M	3.3m		ØJ	32	24	10	300m	18u	.50Ø	5.0mØ	45	135u	500	8.0	40p	A	R118	
50#	TF66/60	150m	1.0M	3.3m		ØJ	64	45	16	300m	18u	.50Ø	5.0mØ	45	135u	500	8.0	40p	A		
51	TS605	150m	1.0MΔ			#J	12	9.0 §	5.0	400m	10uØ	1.0Ø	.25m	15 †Δ					A	TO9	
52	TS606	150m	1.0MΔ			#J	20	18 §	5.0	400m	10uØ	1.0Ø	.25m	15 †Δ					A	TO9	
53#	2SB293	150m	1.2M	2.5m		#J	18	13 §		250m	10uØ	1.0Ø	150m	70 †					A	TO1	
54#	2SB294	150m	1.2M	2.5m		#J	18	13 §		250m	10uØ	4.0Ø	1.0m	36	18u	1.0k	2.9		A	TO1	
55	CK751	150m	1.2M	2.5m		#J	12			150m	6.0uØ	6.0	1.0m	140					F		
56	MA894	150m	1.2M	2.5m		#J	30	30 Ø	10	200m	100u	6.0Ø	1.0m	20 Δ				25pØ	A	TO5	
57#	2SB266	150m	1.3M			#J	25			150m	10uØ	6.0Ø	1.0m	67	23u	1.8k	3.7		A	TO1	
58#	2SB267	150m	1.3M			#J	25			150m	10uØ	1.0Ø	150m	70 †					A	TO1	
59#	2SB269	150m	1.3M	2.5m		#J	25			150m	10uØ	6.0Ø	1.0m	67	23u	2.0k	4.0		AØ	TO1	
60#	2SB299	150m	1.3M			#J						1.0Ø	150mØ	65 †					A	TO1	
61#	2G398	150m	1.4M	2.5m		#J	105	60 §	40	200m	30uØ	5.0	1.0m	79	530nb	34	5.0	12p	A	TO5	
62#	2SB66	150m	1.5M				30		12	70m	14u	6.0Ø	1.0m	70	27u	2.2k	5.0	32p	A	TO1	
63#	2SB386†	150m	1.5M	2.5m		#J	30	30 Ø	15	300m	10uØ	.50Ø	50mØ	80 †					A	TO1	A
64#	GET3	150m	1.5M	5.0m		*S	12			25m	6.0uØ	6.0	1.0m	50				60p	A		
65#	GET4	150m	1.5M	5.0m		*S	30			35m	6.0uØ	12	1.0m	50				40p	A		
66#	GET6	150m	1.5M	5.0m		*S	12			25m	6.0uØ	6.0	1.0m	50				60p	A		
67	MA895	150m	1.7M	2.5m		#J	30	30 Ø	10	200m	100u	6.0Ø	1.0m	40 Δ				25pØ	A	TO5	
68#	2SB75A	150m	2.0M				45	45 Ø	12	100m		6.0Ø	1.0mØ	55	17k	17k	3.0		A	TO1	
69	GT122	150m	2.0M	2.0m		#S	25		10		25u	5.0Ø	1.0m	100	500nb	40	5.0	35p	AΔ	TO5	A
70#	TP2	150m	2.0M			ØS				30m	10uØ		.05m						PC		
71#	XS104	150m	2.0MΔ	3.0m		ØJ	21		21		5.0u	1.0Ø	100mØ	18 †	22u	600	1.5		ABΔ	R35	
72	MA896	150m	2.2M	2.5m		#J	30	30 Ø	10	200m	100u	6.0Ø	1.0m	90 Δ				25pØ	A	TO5	
73#	2G322	150m	2.5M	3.7m		#J	16	16 §		100m	16u	5.0Ø	1.0m	50		1.4k		27p	AØ	TO5	
74#	SFT135	150m	2.5M	3.0m		ØJ	35		20	250m	5.0u	1.0Ø	30mØ	30 †				15p	AΔ		
75#	XS101	150m	2.5MΔ	3.0m		ØJ	21		21		5.0u	5.0	1.0mØ	20	22u	600	1.5	10p	ABΔ	R35	
76#	XS121	150m	2.5MΔ	3.0m		ØJ	21		21		5.0u	1.0Ø	100mØ	18 †	22u	600	1.5	10p	ABΔ	TO5	
77	MA897	150m	2.7M	2.5m		#J	30	30 Ø	10	200m	100u	6.0Ø	1.0m	180 Δ				25pØ	A	TO5	
78#	2G308	150m	3.0M	2.3m		#J	15		10	100m	10u	6.0	1.0m	50				12p	AØ	R51	
79	2N1404A	150m	3.0M§Δ	2.5m		#J	25	15	20	300m	5.0uØ	.20Ø	24mØ	24 †Δ				20pØ	Δ	TO5	
80#	AC161	150m	3.0MΔ	2.5m		#J	15		9.0	100m	15u	6.0Ø	1.0mØ	100	60u	2.7k	5.0		AØ	TO1	
81#	SFT106	150m	3.0M	2.5m		#J	18		12	100m	10u	6.0Ø	1.0mØ	28				8.0p	A	RO1	
82#	SFT306	150m	3.0M	2.5m		#J	18		12	100m	10u	6.0Ø	1.0mØ	28				8.0p	A	TO1	A
83#	SFT337	150m	3.0MΔ	2.5m		#A	15	15 #	9.0	100m	2.5uØ	6.0Ø	1.0mØ	50 Δ	50u	2.2k	5.0			TO1	AØ
84#	2G323	150m	3.1M	3.7m		#J	16	16 §		100m	16u	5.0Ø	1.0m	70		2.0k		27p	AØ	TO5	
85#	2G324	150m	3.4M	3.7m		#J	16	16 §		100m	16u	5.0Ø	1.0m	88		2.6k		27p	AØ	TO5	
86#	2G394	150m	3.5M	2.5m		#S		10	20	200m	6.0u	1.0Ø	10m	25 †				12p	A	TO5	
87#	2SA65	150m	3.8MΔ	3.0m		ØJ	18	18	12	200m	12uØ	.50Ø	100mØ	80				16pØ	A	TO1	A
88#	2SA282	150m	3.8MΔ	3.0m		ØJ	18	18 Ø	12	200m	12uØ	.50Ø	100mØ	80 †				10p	AΔ	TO5	
89	2N1361	150m	4.0M	2.5m		#S	25	20	15	200m	6.0uØ	.15Ø	25mØ	40 †Δ				20pØ	Δ	TO5§	
90	40269	150m	4.0MΔ	2.5m		ØJ	25		12	100m	5.0uØ	.15Ø	12mØ	50 †Δ					AΔ	TO5	A
91#	CP98	150m	4.0MΔ			#J	65		55				30m	30 †Δ					AΔ	TO5	
92	TIXA01	150m	4.0MΔ	2.0m		#S	50	35	40	150m	5.0uØ	6.0Ø	1.0mØ	180	72.u	4.8k	19	10pØ	A	TO39	
93	TIXA02	150m	4.0MΔ	2.0m		#J	40	25	30	150m	5.0uØ	4.0Ø	.50mØ	200	80u	10k	41	10pØ	A	TO39	
94#	2G508	150m	4.4M	3.7m		#J	16	16 §		100m	16u	5.0Ø	1.0m	112		3.2k		27p	AØ	TO5	
95#	2G509	150m	4.4M	3.7m		#J	16	16 §		100m		5.0Ø	1.0m	112		3.2k		27p	AØ	TO5	
96#	2G345	150m	5.0M§	2.3m		#J	15		10	100m	10u	6.0	1.0m	50 †				8.5p	A	R51	
97#	2G371	150m	5.0M§	2.3m		#J	20		10	100m	10u	6.0	1.0m	50 †				20p	A	R51	
98#	2G374	150m	5.0M§	2.3m		#J	20		10	100m	10u	6.0	1.0m	120				20p	A	R51	
99#	2G376	150m	5.0M§	2.0m		#A	30	30 §	10	300m	10u	1.0Ø	100mØ	70 †					A	R51	
100#	2G377	150m	5.0M§	2.0m		#A	60	60 §	10	300m	50u	1.0Ø	100mØ	70 †					A	R51	
101	2N1115A	150m	5.0MΔ	2.5m		#J	20	15	10	125m	6.0u							20p	AΔ	RO109	
102#	ASY49	150m	5.0M	3.0m		ØJ	100	20			6.0uØ	0.0	10mØ	30 †Δ					Δ	R47	
103#	ASY52	150m	5.0M	3.0m		ØJ	60	20			100u	0.0	10mØ	30 †Δ					Δ	R47	
104	GT123†	150m	5.0MΔ	2.0m		#S	25	15 §	15		6.0uØ	1.0Ø	10m	90	700nb	30	6.0	15p	A	TO5	
105#	SFT126	150m	5.0M	2.5m		#J	24		12	250m	5.0u	6.0Ø	1.0mØ	30	24u	1.0k	3.5	9.0p	A		
106	TIXA03	150m	5.0M	2.0m		#J	25	20	25	150m	5.0uØ	6.0Ø	1.0mØ	100				7.0p	A	TO39	
107	TIXA04	150m	5.0M	2.0m		#J	25	20	25	150m	5.0uØ	6.0Ø	1.0mØ	200				7.0p	A	TO39	
108	TIXA05	150m	5.0M	2.0m		#J	20	15	20	150m	7.0u	6.0Ø	1.0mØ	30 *Δ				7.0p	A	TO39	
109	UST760	150m	5.0M	2.5m		#J		15			1.0u	6.0	1.0m	40				14p	A	TO9	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1#	2G395†	150m	5.5M	2.5m	#J	30	15	20	200m	6.0u	1.0Ø	10mØ	20 †△	b		90	12p	A	TO5	
2	2N2209	150m	6.0M△	2.0m	#S	30	12	12	100m	5.0uØ	.20Ø	24mØ	50 †△				20p⊠	△	TO5	
3#	2SA204	150m	6.0M		#J	30	10	20	200m	6.0uØ	6.0	1.0m	65	900nb	28	12	15p	A	TO5	
4#	2SA283	150m	6.0M△	3.0m	ØJ	18	18 Ø	12	200m	12uØ	.50Ø	100mØ	80 †				10p	A△	TO5	A
5#	2SA458†	150m	6.0M	2.5m	#J	25	14	15	200m	5.0uØ	1.0Ø	10mØ	60 †				14p	A	R107 b	
6#	2SA459†	150m	6.0M	2.5m	#J	25	14	15	200m	5.0uØ	1.0Ø	10mØ	120 †				14p	A	R107 b	
7#	2G302	150m	7.0M	2.5m	#J		10	20	200m	6.0u	5.0	1.0m					12p	A		
8#	SFT107	150m	7.0M	2.5m	#J	18		12	100m	10u	6.0Ø	1.0mØ	40				8.0p	A	RO1	
9#	SFT127	150m	7.0M	2.5m	#J	24		12	250m	5.0u	6.0Ø	1.0mØ	35	28u	1.1k	3.5	9.0p	A		
10#	SFT136	150m	7.0M	3.0m	ØJ	35		20	250m	5.0u	1.0Ø	30mØ	50 †				10p	A△		
11#	SFT307	150m	7.0M	2.5m	#J	18		12	100m	10u	6.0Ø	1.0mØ	40				8.0p	A	TO1	A
12#	2SA66	150m	7.5M△	3.0m	ØJ	18	18	12	200m	12uØ	.50Ø	100mØ	80				16p⊠	A	TO1	A
13#	2G396†	150m	8.0M	2.5m	#J	30	20	20	200m	6.0u	1.0Ø	10mØ	30 †△	b		100	12p	A	TO5	
14	2N123/5†	150m	8.0M	1.6m	#S	20		10	125m	6.0u	5.0	1.0m	65	600nb	28	8.0	15p	A	TO5	
15#	64T1	150m	8.0M			30		20	200m	6.0u	1.0	10m	80 †						TO5	
16#	2G604†	150m	9.2M	2.5m	#S		30		200m	6.0u	1.0Ø	10m	70 †				12p	A	TO5	
17#	2G603†	150m	9.4M	2.5m	#S	30	15 §	20	200m	6.0uØ	1.0Ø	10mØ	40 †△				12p	A	TO5	
18#	2G605†	150m	9.4M	2.5m	#J	30	20 §	20	200m	6.0uØ	.25Ø	4.5mØ	75 †				12p	A	TO5	
19#	2SA284	150m	10M△	3.0m	ØJ	18	18 Ø	12	200m	12uØ	.50Ø	100mØ	80 †				10p	A△	TO5	A
20#	65T1	150m	10.M			30		20	200m	6.0u	1.0	10m	90 †						TO5	
21	R212	150m	10.M△	2.5m	#J	30	15	20	400m	5.0uØ	.35Ø	10m△	20 †△				14p	A	TO5	
22	SYL1655	150m	10.M△	2.5m	#S	30		20	400m	20u							20p	A△	TO5	
23	UST761	150m	10.M	2.5m	#J		10			1.0u	6.0	1.0m	75				14p	A	TO9	
24#	2SA67	150m	11M△	3.0m	ØJ	18	18	12	200m	12uØ	.50Ø	100mØ	80 †				16p⊠	A	TO1	A
25#	2G309	150m	12M	2.3m	#J	15		10	100m	10u	6.0	1.0m	160				12p	AØ	R51	
26#	2G344	150m	12M§	2.3m	#J	15		10	100m	10u	6.0	1.0m	100 †				8.5p	A	R51	
27#	2G397†	150m	12M	2.5m	#J	30	15	20	200m	6.0u	1.0Ø	10mØ	40 †△	b		110	12p	A	TO5	
28	3907	150m	12.M	2.5m	#J	25		12	200m	20u	.15Ø	12mØ	45 †				15p	A△	TO5	
29#	ASZ10†	150m	12M△	5.0m	ØJ	50	30 §	.70	250m	30uØ	.55Ø	200mØ	20 †△				4.0p⊠	D	X12	
30	2N2621	150m	13M§△	1.8m	♦S	15		1.0	100m	16uØ	6.0Ø	1.0mØ	15 †△				3.5p⊠		TO5	
31	2N2624	150m	13M§△	1.8m	♦S	15		1.0	100m	16uØ	6.0Ø	1.0mØ	15 †△				3.5p⊠		TO5	
32	2N2627	150m	13M§△	1.8m	♦S	15		.50	100m	20uØ	6.0Ø	1.0mØ	15 †△				3.5p⊠		TO5	
33#	SFT108	150m	13.M	2.5m	#J	18		12	100m	10u	6.0Ø	1.0mØ	70				9.0p	A	RO1	
34#	SFT308	150m	13.M	2.5m	#J	18		12	100m	10u	6.0Ø	1.0mØ	70				9.0p	A	TO1	A
35#	SFT128	150m	14.M	2.5m	#J	24		12	250m	5.0u	6.0Ø	1.0mØ	55	42u	1.7k	3.8	9.0p	A		
36	2N2622	150m	15M§△	1.8m	♦S	24		1.0	100m	12uØ	12Ø	1.0mØ	15 †△				3.5p⊠		TO5	
37	2N2625	150m	15M§△	1.8m	♦S	24		1.0	100m	12uØ	12Ø	1.0mØ	15 †△				3.5p⊠		TO5	
38	2N2628	150m	15M§△	1.8m	♦S	24		.50	100m	14uØ	12Ø	1.0mØ	15 †△				3.5p⊠		TO5	
39	2N3000	150m	15.M	2.5m	#J	45	15	35	400m	50u	5.0	1.0m	110				10p	A△	TO5	
40	2N2623	150m	16M§△	1.8m	♦S	32		1.0	100m	8.0uØ	12Ø	1.0mØ	20 †△				3.5p⊠		TO5	
41	2N2626	150m	16M§△	1.8m	♦S	32		1.5	100m	8.0uØ	12Ø	1.0mØ	20 †△				3.5p⊠		TO5	
42	2N2629	150m	16M§△	1.8m	♦S	32		.50	100m	10uØ	12Ø	1.0mØ	10 †△				3.5p⊠		TO5	
43	UST762	150m	20.M	2.5m	#J		10			1.0u	6.0	1.0m	100				14p	A	TO9	
44#	2SA127	150m	25.M		ØJ	70		.50	50m	55u	6.0	1.0m					15p	D	TO44	
45	MM404†	150m	25M	2.0m	#J	25	24 Ø	12	150m	5.0uØ	6.0Ø	1.0mØ	135	50u	3.0k	8.0	8.0p		TO18	AØ
46	MM404A†	150m	25M	2.0m	#J	40	35 Ø	25	150m	5.0uØ	6.0Ø	1.0mØ	135	50u	3.0k	8.0	8.0p		TO18	AØ
47	UST764	150m	25.M	2.5m	#J		20			1.0u	6.0	1.0m	200				14p	A	TO9	
48#	ASY30	150m	30.M		ØJ	50		.70	250m	20u	.55	4.0m	90					D	X9	
49	UST763	150m	30.M	2.5m	#J		6.0			1.0u	6.0	1.0m	120				14p	A	TO9	
50	2N934	150m	33M§△	2.5m	#	13		1.0	200m	6.0u	.30Ø	40mØ	60				8.0p	E	TO18	
51#	AFZ10	150m	35M△	5.0m	ØJ	40	30	.70	250m	35uØ	6.0Ø	10mØ	25 †△				4.0p⊠	D	X12	
52#	SFT115	150m	40.M	2.5m	#J	40		.50	10m	15u	9.0Ø	1.0mØ	60				2.5p	D		
53#	XA161	150m	40.M§	2.5m	#A	13		1.0	100m	20u	.30Ø	10mØ	50 †					ME	TO5	
54	2SA311†	150m	50M	3.0m	ØJ	40	40 Ø	2.0	400m	6.0uØ	1.0Ø	400mØ	60 †				3.0p	D	TO5	AØ
55	2SA312†	150m	50M	3.0m	ØJ	40	40 Ø	2.0	200m	6.0uØ	1.0Ø	200mØ	60 †				3.0p	D	TO5	AØ
56#	2SA412†	150m	60.M§	2.5m	#J						.50	30m	30 †				12p		TO1	
57#	AFY14	150m	60.M		ØJ	40		.60	250m	20u	6.0	1.0m	80					D	X9	
58#	XA162	150m	60.M§	2.5m	#A	13		4.0	100m	20u	.50Ø	40mØ	50 †					ME△	TO5	
59	2N2588	150m	75M§△	2.0m	#S	40	20	1.0	30m	50u	12Ø	1.5mØ	50 △		400 ⊠		2.5p⊠	↑	R78	
60	2N501/18†	150m	90.M§	400u	#J	15	12 Ø	2.0	200m	100u	.50Ø	10mØ	20 †				5p⊠	ME	TO18	
61	2N3216†	150m	90M§△	2.0m	#S	20	10	20	500m	2.0uØ	.22Ø	200mØ	60 †△				20p⊠		TO5	
62	TI397	150m	90.M§	2.5m	#J	35	35 Ø	2.0	50m	3.0uØ	6.0Ø	.50mØ	28 △				2.0p	ME	TO58	F
63	TI398	150m	90.M§	2.5m	#J	35	35 Ø	2.0	50m	5.0uØ	6.0Ø	.50mØ	28 △				2.0p	ME	TO58	F
64	TI399	150m	110M§	2.5m	#J	35	35 Ø	2.0	50m	5.0uØ	6.0Ø	.50mØ	50 △				2.0p	ME	TO58	F
65#	2G106†	150m	120M§	2.0m	#A	18	15 Ø	4.0	100m	100u	.25Ø	10mØ	30 †△				5p⊠	ME	TO18	
66	2N2943†	150m	120M§△	2.0m	#S	30	15	2.0	100m	25u	.50Ø	50m	45 †				4p⊠	D	TO9	
67	2N2512	150m	140M§△	3.0m	ØS	70	70 §	1.0	30m	5.0uØ	6.0Ø	10mØ	40 △				5.0p⊠		TO12	G
68	2N2942†	150m	150M§△	2.0m	#S	50	25	2.5	100m	25u	.50Ø	50m	65 †				3.5p⊠	D	TO9	
69	2N3400†	150m	150M§△	2.0m	#S	20	20	2.0	100m	5.0uØ	.50Ø	50mØ	35 †△				3p⊠		TO9	
70	USAF509ES025P	150m	150M§△	2.0m	#S	15	6.0	2.0	100m	10u	5.0Ø	1.5m	45 △				8.5p⊠	D	R99	
71	USAF513ES045P	150m	150M§△	2.0m	#S	40	16	2.0	100m	10uØ	5.0Ø	1.5m	45 △				8.5p⊠	DE	R99	
72	TI365	150m	200M	2.5m	#J	30	30	2.0	50m	5.0uØ	9.0Ø	1.0mØ	30 †△				3.3p⊠	ME	TO58	F
73	TI385	150m	200M	2.5m	#J	30	30	2.0	50m	3.0uØ	6.0Ø	1.0mØ	35 †				2.4p	ME	R44	
74	TI386	150m	200M	2.5m	#J	30	30	2.0	50m	3.0uØ	6.0Ø	1.0mØ	35 †				2.6p	ME	R44	
75	TI387	150m	200M	2.5m	#J	30	30	2.0	50m	3.0uØ	6.0Ø	1.0mØ	35 †				2.4p	ME	R44	
76	TI388	150m	200M	2.5m	#J	30	30	2.0	50m	5.0uØ	6.0Ø	1.0mØ	35 †				2.6p	ME	TO58	F
77	TI389	150m	200M	2.5m	#J	30	30	2.0	50m	5.0uØ	6.0Ø	1.0mØ	20 †				2.6p	ME	TO58	F
78	TI395	150m	200M	2.5m	#J	30	30 Ø	2.0	50m	5.0uØ	1.0Ø	10mØ	220 †⊠				3.0p	ME	R44	
79	TI396	150m	200M	2.5m	#J	50	50 Ø	5.0	50m	5.0uØ	1.0Ø	20mØ	220 †⊠				3.0p	ME	R44	
80#	2G103†	150m	300M	4.0m	#J	15	15 Ø	2.0	50m	3.0uØ	5.0	10m	40 †				5.0p	ME	TO18	
81#	2G104†	150m	300M	4.0m	#J	15	15 Ø	3.5	50m	3.0uØ	50Ø	10m	40 †				5.0p	ME	TO18	
82#	2SA56†	150m	300M§		#J	15	15 Ø	3.5	50m	5.0uØ	.30Ø	10mØ	40 †				5.0p	ME	TO18	
83#	2SA126†	150m	300M§	2.0m	#J	15	15 Ø	1.0	50m	5.0uØ	.50	10m	40 †				5.0p	PME	TO18	
84#	2SA405†	150m	300M§		#J	15	15 Ø	3.5	50m	3.0uØ	.50Ø	10mØ	40 †				5.0p	ME	TO18	
85	2N2587	150m	316M§△	2.0m	#S	30	15	.70	100m	5.0uØ	5.0Ø	8.0mØ	20 △	20u⊠b	10 ⊠	3.0 ⊠	3.0p⊠	Ø	TO18	AØ
86	2N779B†	150m	320M§△	2.0m	#S	15	15 Ø	2.0	100m	3.0uØ	.50Ø	10mØ	50 †△				2.5p⊠		TO18	A
87	2N846B†	150m	320M§△	2.0m	#S	15	15 Ø	2.0	100m	3.0uØ	.50Ø	10mØ	25 †△				2.5p⊠		TO18	A
88	101A†	150m	320M§	2.0m	#J	15		5.0	100m	10u	3.0Ø	50mØ	40 †					ME	TO18	A
89	101B†	150m	320M§	2.0m	#J	15		5.0	100m	10u	3.0Ø	50mØ	40 †					ME	TO18	A
90	101M†	150m	320M§	2.0m	#J	15		5.0	100m	10u	3.0Ø	50mØ	40 †					ME	TO18	A
91	201B	150m	320M§	2.0m	#J	15		2.0	100m	10u	5.0Ø	115m	45 △				8.5p⊠	D	TO18	A
92	201M	150m	320M§	2.0m	#J	15		2.0	100m	10u	5.0Ø	115m	45 △				8.5p⊠	D	TO18	A
93	TI711A	150m	360M§	2.0m	#J	18		2.0	100m	1.5u	7.0Ø	50mØ	50 †	45u	8.0		5.0p	ME△	TO18	
94	107A	150mØ	375M§	2.0m	#J	40		5.0		10u		400uØ	25 †					ME	TO18	
95	107B	150mØ	375M§	2.0m	#J	40		5.0		10u		400uØ	25 †					ME	TO18	
96	107M	150mØ	375M§	2.0m	#J	40		5.0		10u		400uØ	25 †					ME	TO18	
97	207A	150mØ	375M§	2.0m	#J	40		2.0		10u		1.5mØ	45 △					ME	TO18	
98	207B	150mØ	375M§	2.0m	#J	40		2.0		10u		1.5mØ	45 △					ME	TO18	
99	207M	150mØ	375M§	2.0m	#J	40		2.0		10u		1.5mØ	45 △					ME	TO18	
100	2N977†	150m	400M§△	2.0m	#S	15	10	2.0	200m	5.0uØ	.50	100mØ	40 †△				8p⊠		TO18	A
101	2N1665	150m	400M*	2.5m	#S	15	12 Ø	.40	50m	10uØ	6.0Ø	10mØ	5.0 △				3.0p		TO5	
102	2N2928	150m	400M§△	2.0m	#S	15	13	.30	100m	5.0uØ	6.0Ø	2.0mØ	8.0 †△				2.5p⊠	Ø	R38	
103#	2SA411†	150m	400M§	2.0m	#J	15	15 Ø	2.5	150m	5.0uØ	.30	10m	40 †				1.5p	PEM	TO18	
104	2N559†	150m	440M§	2.0m	$S	15		5.0	50m	3.0uØ	1.0Ø	10mØ	50	9.0ub	7.0	25	6.0p⊠	ME	TO28	
105	2N960/46†	150m	460M§	2.0m	#J	15	15	2.5		3.0uØ	.30Ø	10mØ	40 †				2.2p	EM	TO46	
106	2N961/46†	150m	460M§	2.0m	J	12	12	2.0		3.0uØ	.30Ø	10mØ	40 †				2.2p	EM	TO46	
107	2N962/46†	150m	460M§	2.0m	#J	12	12	1.3		3.0uØ	.30Ø	10mØ	40 †				2.2p	EM	TO46	
108	2N964/46†	150m	460M§	2.0m	#J	15	15	2.5		3.0uØ	.30Ø	10mØ	70 †				2.2p	EM	TO46	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D T0200 D E Ser.
1#	2SA450H†	150m	530M§	2.0m	#J	12	6.0	1.5	100m	3.0uØ	1.0Ø	50mØ	45				2.3p	EM	TO18 A
2#	2SA451H†	150m	530M§	2.0m	#J	12	6.0	1.5	100m	3.0uØ	1.0Ø	50mØ	95				2.3p	EM	TO18 A
3#	2SA452H†	150m	530M§	2.0m	#J	12	6.0	1.5	100m	3.0uØ	1.0Ø	50mØ					2.3p	EM	TO18 A
4	2N1094	150m	645M§	2.0m	#J	30	15	1.0	40m	5.0uØ	6.0	4.0m	50	2.0ub	9.5	11	2.3p	D†	TO28
5#	MM2550†	150m	1.0G§△	2.0m	#J	20	10	.50	100m	10uØ	5.0Ø	10mØ	20 †△				3.0pØ	EM	TO18 A
6	TIX3023	150m	2.4G§△	2.0m	#S	15	7.0	.30	50m	6.0uØ	5.0Ø	6.0mØ	40 △				3pØ	EM	u26
7	UST10	165m		2.8m	#J		50			25u			22				35p	A△	T09
8	UST81	165m		2.8m	#J		25			6.0u	6.0	1.0m	90					A†	T09
9	UST722	165m		2.8m	#J		20			6.0u	6.0	1.0m	22					A	T09
10	UST87	165m	.50M	2.8m	#J		25			6.0u			38				35p	A△	T09
11	UST88	165m	1.0M	2.8m	#J		25			6.0u			80				35p	A△	T09
12	UST19	165m	1.5M	2.8m	#J		25			6.0u			80				35p	A△	T09
13#	XC101	166m		3.3m	ØJ	35		12		10u	5.0	8.0mØ	66	96u	420	2.0		A△	R35
14#	2SB265	170m	1.3M	3.4m	ØJ	40	30 Ø	12	100m	10uØ	1.0Ø	100mØ	100 †				30p	A△	T05
15#	2SA128	170m	15M△	3.4m	ØJ	40	40	2.0	500m	50uØ	1.0Ø	400mØ	35				25pØ	D	TO44 G
16#	2SA129	170m	15M△	3.4m	ØJ	40	40	2.0	500m	50u	1.0Ø	400mØ	70 †				25pØ	D	TO44 G
17	MA112	175m			#S	15	15	15	200m	15u	6.0Ø	1.0m	30 △						T05
18	MA113	175m			#S	15	15	15	200m	15u	6.0Ø	1.0m	50 △						T05
19	MA114	175m			#S	15	15	15	200m	15u	6.0Ø	1.0m	100 △						T05
20	MA115	175m			#S	15	15	15	200m	15u	6.0Ø	1.0m	30 △						T05
21	MA116	175m			#S	15	15	15	200m	15u	6.0Ø	1.0m	50 △						T05
22	MA117	175m			#S	15	15	15	200m	15u	6.0Ø	1.0m	100 △						T05
23	MA286	175m			#S	10	10	10	200m		6.0Ø	1.0m	14 △						T05
24	MA287	175m			#S	10	10	10	200m		6.0Ø	1.0m	30 △						T05
25	MA288	175m			#S	10	10	10	200m		6.0Ø	1.0m	180 △						T05
26#	OC602SP	175m		5.9m		40		10	500m	30u	6.0	1.0m	25					A	X12
27#	OC604SP	175m		5.9m		40		10	500m	30u	6.0	1.0m	45					A	X12
28	MA890	175m	750k△	2.9m	#J	40	40 Ø	15	200m	100u	6.0Ø	1.0m	30 △				25pØ	A	T05
29	MA891	175m	1.0M△	2.9m	#J	40	40 Ø	15	200m	100u	6.0Ø	1.0m	50 △				25pØ	A	T05
30	MA892	175m	1.2M△	2.9m	#J	40	40 Ø	15	200m	100u	6.0Ø	1.0m	100 △				25pØ	A	T05
31	MA893	175m	1.7M△	2.9m	#J	40	40 Ø	15	200m	100u	6.0Ø	1.0m	190 △				25pØ	A	T05
32#	2SA174	175m	4.0M	3.5m	ØJ	20		10	50m	8.0u	1.0Ø	10m	60 †				13p	A	MM4
33	2SA172	175m	8.0M	3.5m	ØJ	20		10	200m	8.0u	.35Ø	200m	40				12p	A	MM4
34#	2SA168	175m	9.0M	3.5m	ØJ	20	18 §	10	50m	8.0u	6.0Ø	1.0m	70	80ub	28	13	15p	A	MM4
35#	2SA168A	175m	9.0M	3.5m	ØJ	20	18	10	50m	8.0u	6.0Ø	1.0m	70	80ub	28	13	15p	A	MM4
36	TS1000	175m	12.M	2.9m	#J	30		20	400m			1.0m△	60 †				12p	A△	
37#	2SA170	175m	15M	3.5m	ØJ	20		10	50m	8.0u	1.0Ø	10m	70 †				11p	A	MM4
38#	OC77M	180m	.35M§			60		10	125m			125mØ	25 †△					A	TO5
39#	TJ1	180m	.50M	3.0m	*					10uØ	1.5Ø	2.0m	10					A	
40#	TJ2	180m	.50M	3.0m	*					10uØ	1.5Ø	2.0m	30					A	
41#	TJ3	180m	.50M	3.0m	*					10uØ	1.5Ø	2.0m	50					A	
42#	2SB162	180m	650k	3.5m	ØJ	30		10	100m	10uØ	1.0Ø	50mØ	50 †				30p	A	MM5
43#	2SB164	180m	800k	3.5m	ØJ	30		10	100m	10uØ	1.0Ø	50mØ	70 †				30p	A	MM5
44#	2SB166	180m	1.0M	3.5m	ØJ	30		10	100m	10uØ	1.0Ø	50mØ	100 †				30p	A	MM5
45#	NKT252	180m	1.0M	3.0m	#J	12	12 Ø		25m	5.0u	4.5Ø	1.0mØ	35 △					A†	TO22
46#	NKT254	180m	1.0M	3.0m	#J	12	12 Ø		25m	5.0u	4.5Ø	1.0mØ	85 △					A†	TO22
47#	TK23A	180m	1.0M	4.0m	ØJ	50					12Ø	1.0m	50					A	
48#	2SB102	180m	1.2M	3.5m	ØJ	30		10	50m	10u	6.0Ø	1.0m	60	300nb	30	2.5		A	MM5
49#	2SB104	180m	1.2M	3.5m	ØJ	30		10	100m	10u	1.0Ø	50mØ	70 †					A	MM5
50#	2SB378	180m	1.3M△		*J	18	16 §		150m	10u	1.0Ø	20mØ	42 †	500nb	27	3.5		A	TO5
51#	2SB379	180m	1.5M△		*J	18	16 §		150m	10u	1.0Ø	20mØ	84 †	500nb		5.0		A	TO5
52#	NKT202	180m	1.5M	3.5m	ØJ	30	30 Ø	10	125m	40u	4.5	25m	150 †	1.0u	65	7.0	45p	A†	TO22
53#	NKT203	180m	1.5M	3.5m	ØJ	30	30 Ø	10	125m	40u	4.5	1.0m	45	1.0u	65	7.0	45p	A	TO22
54#	NKT204	180m	1.5M	3.5m	ØJ	30	30 Ø	10	125m	40u	4.5	1.0m	35	1.0u	65	7.0	45p	A	TO22
55#	NKT205	180m	1.5M	3.5m	ØJ	30	30 Ø	10	125m	40u	4.5	1.0m	30	1.0u	65	7.0	45p	A†	TO22
56#	NKT206	180m	1.5M	3.5m	ØJ	30	30 Ø	10	125m	40u	4.5	1.0m	100	1.0u	65	7.0	45p	AØ	TO22
57#	NKT207	180m	1.5M	3.5m	ØJ	60	60 Ø	10	125m	40u	4.5	25m	150 †	1.0u	65	7.0	45p	A	TO22
58#	TK40A	180m	1.5M	4.0m	ØJ	40		40			12Ø	1.0m	90					AB	
59#	2SB380	180m	1.7M△		*J	18	16 §		150m	10u	1.0Ø	20mØ	169 †	300nb		10		A	TO5
60#	420T1	180m	2.0M	3.3m		20	20	6.0	500m	16u	1.0	150m	32 △					A	TO1
61#	421T1	180m	2.0M	3.3m		20	20	6.0	500m	16u	1.0	150m	60 △					A	TO1
62	AT209	180m	7.0M	2.8m	#J	40	40 Ø	25	250m	14uØ	6.0	1.0mØ	200				9.0p	A	TO1
63	AT210	180m	7.0M	2.8m	#J	30	30 Ø	25	250m	5.0uØ	6.0	1.0mØ	200				10p	AØ	TO1
64#	2SA250	180m	50M	2.3m	ØJ			.50	10m	16uØ	6.0	1.0m	100				4.0p	D	
65#	AF107	180m*	330MØ	4.0m	#J	30		1.0	70m	18u	10Ø	10mØ	60				1.2p	MEØ	R23
66#	AF108	180m*	400MØ	4.0m	#J	30		1.0	70m	18u	10Ø	10mØ	60				1.2p	MEØ	R23
67#	AC134	185m	7.0M	2.9m	#J	20	20 Ø	25	250m	14uØ	6.0Ø	1.0mØ	70				7.0p	A	TO1
68	2N73	200m			*		50											ADA△	
69	2N74	200m			*		50											ADA△	
70	2N75	200m			#		20											ADA△	
71#	2SB67AH	200m				60	30	60	30m	10u	6.0Ø	1.0m	50 △	22u	2.5k	3.5		A	TO7
72#	2SB67H	200m				55	30	55	30m	10u	6.0Ø	1.0m	50 △	22u	2.5k	3.5		A	TO7
73#	AC115	200m*		5.0m	#J	26	16	3.0	50m	100u	5.0Ø	1.0mØ	15 △					A	TO1
74#	ASY63†	200m		4.0m	ØJ	26	8.0			10uØ	.10Ø	3.0mØ	25 △						R47
75#	NKT278	200m		3.1m	#J	15		5.0	125m	10uØ	4.5Ø	1.0mØ	45 △						TO1 A
76	TS601	200m			#J	12	9.0 §	5.0	400m	20uØ	1.0Ø	10mØ	37 †					A	TO9
77	TS602	200m			#J	12	9.0 §	5.0	400m	20uØ	1.0Ø	10mØ	60 △					A	TO9
78	TS603	200m			#J	20	18 §	5.0	400m	20uØ	1.0Ø	10mØ	37 †					A	TO9
79	TS604	200m			#J	20	18 §	5.0	400m	20uØ	1.0Ø	10mØ	60 △					A	TO9
80	2N54	200m	500k		*A	45			10m				40 §	3.0ub	10	400			
81	2N55	200m	500k		*A	45			10m				36 §	5.0ub	15	750			
82	2N56	200m	500k		*A	45			10m				32 §	7.0ub	20	1.5k			
83	TK46C	200m	500k△	4.0m	ØJ	20	10				0.0	5.0mØ	15				18p	A	R47
84#	TK47C	200m	500k△	4.0m	ØJ	20				12uØ	0.0	5.0mØ	20 †△					AA	R47
85	MA2043	200m	750k△	2.6m	#J	105	105 Ø		200m		.35Ø	5.0mØ	40 †△						TO5
86	4JD1B2	200m	.80M	3.0m	#J	45		45	1	20uØ	.30Ø	200mØ	10				45p	BA	
87	4JD1B3	200m	.80M		#J	30			1	20u			15				45p	B	
88	4JD1B4	200m	.80M		#J	30			1	20u			15				45p	B	
89#	TK41	200m	900k	4.0m	ØJ	40		30			12Ø	1.0mØ	40				17p	A	
90#	2SB494	200m	1.0M	3.3m	#J	25	18	6.0	1.0	20uØ	1.0Ø	150m	38 †△					A	TO1 A
91#	2SB495	200m	1.0M	3.3m	#J	25	18	6.0	1.0	20uØ	1.0Ø	150m	110 †					A	TO1 A
92#	2SB495A	200m	1.0M	3.3m	#J	32	25	6.0	1.0	20uØ	1.0Ø	150m	110 †					A	TO1 A
93#	GET103	200m	1.0M	5.0m	#J	30			1	25u	2.0Ø	1.0mØ	55					A	RO11
94#	GET104	200m	1.0M	5.0m	#J	30		12	1	25u	.50Ø	250mØ	30 †					A	RO11
95#	GET106	200m	1.0M	5.0m	#J	15			1	25u	2.0Ø	1.0mØ	55					A	RO11
96#	GET111	200m	1.0M	5.0m	#J	60		12	1	25u	.50Ø	250mØ	30 †					A	RO11
97#	GET114	200m	1.0M	5.0m	#J	15			1	25u	2.0Ø	1.0mØ	55	30u	1.4k	3.0	90p	A†	RO11
98#	GET535	200m	1.0M	5.0m	#J	30		6.0	1.5	25u	.50	500m	50 †					A	TO5
99#	GET536	200m	1.0M	5.0m	#J	30		6.0	1.5	25u	.50	500m	75 †					A	TO5
100#	GET538	200m	1.0M	5.0m	#J	60		6.0	1.5	25u	.50	500m	50 †					A	TO5
101	KGS1000	200m	1.0M△	2.9m	#S	10		10	400m	25u	6.0	1.0m	15		30		14p		TO5
102#	NKT273	200m	1.0M	3.0m		18		5.0	300m	40u	1.5	200m	45 †					A	TO1
103#	NKT275A	200m	1.0M	3.0m		15		5.0	10m	40u	4.5	1.0m	50					A	TO1
104#	NKT275E	200m	1.0M	3.0m		10		5.0	10m	40u	4.5	1.0m	120					A	TO1
105#	NKT275J	200m	1.0M	3.1m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1.0mØ	50						TO1 A
106#	SFT141	200m	1.0M	3.3m	#J	45		25	250m	10u	6.0Ø	1.0mØ	32	20u	1.1k	2.7	30p	A	
107#	TK23	200m	1.0M	4.0m	ØJ	50		20			12Ø	1.0mØ	50	20u	1.5k	2.0	14p	A	
108#	TK23C	200m	1.0M	4.0m	ØJ	40		20		5.0uØ	12Ø	1.0mØ	60	16u	1.5k	3.0	16p	AØ	R47
109#	TK41C	200m	1.1M	4.0m	ØJ	40	20	30			12Ø	1.0mØ	40	13u	1.2k	3.0	16p	A	R47
110#	TK42C	200m	1.1M	4.0m	ØJ	40	15	30			12Ø	1.0mØ	40	13u	1.2k	3.0	16p	A	R47

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1#	AC155†	200m*	1.2M§	5.0m	#J	26	16	3.0	50m	100u	5.0Ø	1.0mØ	43				100pØ	AØ	TO1		
2#	SFT142	200m	1.2M	3.3m	#J	45		25	250m	10u	6.0Ø	1.0mØ	50	26u	1.6k	3.2	30p	A			
3#	SFT151	200m	1.2M	3.3m	#J	24		12	150m	15u	6.0Ø	1.0mØ	30	20u	1.0k	2.7	32p	A			
4#	2SB450	200m	1.3M			25	25		500m	20uØ	1.0Ø	150mØ	120 †					A	TO1		
5#	2SB450A	200m	1.3M			32	32		500m	20uØ	1.0Ø	150mØ	120 †					A	TO1		
6#	GET5	200m	1.3M		*S	20			50m	6.0uØ	12	1.0m					38p	A			
7#	SFT12,1	200m	1.3M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	30 †	20u	1.1k	2.7	32p	△			
8#	TK42	200m	1.4M	4.0m	ØJ	40		30			12Ø	1.0mØ	70				17p	A			
9#	TK45C	200m	1.4M	4.0m	ØJ	40	15	30		12uØ	12Ø	1.0mØ	66				16p	AØ	R47		
10#	ASY82†	200m*	1.5M§	5.0m	#J	26	16	12	500m	100u	0.0	10mØ	130 †Ø				100pØ	A	TO1		
11#	ASY84†	200m*	1.5M§	5.0m	#J	40	20	12	500m	100u	0.0	10mØ	130 †Ø				100pØ	A	TO1		
12#	AT74	200m	1.5M	3.3m	#J	20	20	6.0	300m	12u	2.0	10m	90	290u	285	30		A	TO1		A
13#	AT74S	200m	1.5M	3.3m	#J	40	35	12	300m	14u	12	1.0m	50					A	TO1		A
14#	GET102	200m	1.5M	5.0m	#J	30			1	25u	2.0Ø	1.0mØ	100	50u	2.7k	3.0	90p	At	RO11		
15#	GET113	200m	1.5M	5.0m	#J	15			1	25u	2.0Ø	1.0mØ	100	50u	2.7k	3.0	90p	At	RO11		
16#	TK40	200m	1.5M	4.0m	ØJ	40		40			12Ø	1.0mØ	90				14p	A			
17#	SFT122	200m	1.6M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	50 †		1.6k	3.2	32p	A			
18#	SFT152	200m	1.6M	3.3m	#J	24		12	150m	15u	6.0Ø	1.0mØ	50	27u	1.5k	3.2	32p	A			
19#	AC156	200m*	1.8M§	5.0m	#J	26	16	3.0	50m	100u	5.0Ø	1.0mØ	85				100pØ	AØ	TO1		
20#	TK40C	200m	1.8M	4.0m	ØJ	40	20	40		12uØ	12Ø	1.0mØ	90	18u	2.6k	4.0	14p	AØ	R47		
21#	2SB51	200m	2.0M		#J	30		3.0	200m	16u	1.0Ø	20m	43 †	.60u	28	8.0	25p	At	TO5		
22#	AC113†	200m*	2.0M§	5.0m	#J	26	16	3.0	50m	100u	5.0Ø	1.0mØ	90				100pØ	AØ	TO1		
23#	AC154†	200m*	2.0M§	5.0m	#J	26	16	6.0	500m	100u	1.0Ø	300mØ	80 †				100pØ	A	TO1		
24#	AC165†	200m*	2.0M§	5.0m	#J	32	20	3.0	50m	100u	5.0Ø	1.0mØ	90				100pØ	AØ	TO1		
25#	AC166†	200m*	2.0M§	5.0m	#J	32	20	6.0	500m	100u	1.0Ø	300mØ	80 †				100pØ	A	TO1		
26#	AC167†	200m*	2.0M§	5.0m	#J	32	20	6.0	500m	100u	1.0Ø	300mØ	80 †				100pØ	A	TO1		
27#	AC177†	200m*	2.0M§	5.0m	#J	32	20	6.0	500m	100u	1.0Ø	300mØ	80 †				100pØ	A	TO1		
28#	ASY56	200m	2.0M§△	4.0m	ØJ	16	10	12		10u	0.0	10mØ	25 †△				13p	A△	R47		
29#	SFT325	200m	2.0M§	3.3m	#S	32	16	12	500m	25uØ	6.0	5.0m	150		1.2k			A	X47		
30#	TK21	200m	2.0M	4.0m	ØJ	30		30			30	500uØ	22	17u	700	1.6		AB			
31#	TK26	200m	2.0M	4.0m	ØJ	30		30			.50Ø	20m	23					AB			
32#	TK35C	200m	2.0M§△	4.0m	Ø	16		12		8.0u	.50Ø	10m	2.0				13p	A	R47		
33#	SFT153	200m	2.4M	3.3m	#J	24		12	150m	15u	6.0Ø	1.0mØ	80	40u	2.3k	3.8	32p	A			
34#	ASY83†	200m*	2.5M§	5.0m	#J	26	16	12	500m	100u	0.0	10mØ	320 †Ø				100pØ	A	TO1		
35#	ASY85†	200m*	2.5M§	5.0m	#J	40	20	12	500m	100u	0.0	10mØ	320 †Ø				100pØ	A	TO1		
36#	SFT123	200m	2.6M	3.3m	#J	24		12	250m	15u	1.0Ø	100mØ	85 †		2.4k	4.0	32p	A			
37#	2G303	200m	3.0M§△			30	30 §	10	300m		6.0Ø	1.0mØ	30 △				12pØ	A	R44		
38#	2SB52	200m	3.0M		#J	30		3.0	200m	16u	1.0Ø	20m	83 †	.60u	28			At	TO5		
39#	2SB53	200m	3.0M		#J	30		15	250m	10u	1.0Ø	20m	73 †	.60u	28			AØ	TO5		
40#	TK27	200m	3.5M	4.0m		30		30			.50Ø	40m	40	23u	1.2k	3.0		AB			
41#	ASY57	200m	3.7M§△	4.0m	ØJ	16	10	12		10u	0.0	10mØ	30 †△				14p	AΔ	R47		
42#	TK36C	200m	3.7M§△	4.0m	Ø	16		12		8.0u	.50Ø	10m	3.7				13p	A	R47		
43	2N1361A	200m	4.0M	3.3m	#S	25	20	15	200m	6.0uØ	.15Ø	25mØ	40 †△				20pØ	△	TO5§		
44	2N110	200m	5.0M	3.3m	#J	50		50	40m		10	1.0m	3.0				.50p	PC	OV2		
45#	2SA205†	200m	5.0M	3.3m	#J	30	15	20	200m	6.0uØ	6.0	1.0m	45	1.1ub	28	10	15p	A	TO5		
46	40403†	200m	5.0M§△	3.0m	#S	30	20	20	200m	6.0uØ	1.0Ø	10mØ	150 †Ø				20pØ	A	TO5		A
47	KGS1001	200m	5.0M	2.9m	#S	15		1.0	400m	50u	6.0	1.0m	30		30		14p		TO5		
48	KGS1005	200m	5.0M	2.9u		30						150m	40					A	TO5		
49	MA1708	200m	5.0M△	2.6m	#J	15	15 §	4.5	500m	15u	1.0Ø	100mØ	200 †△	b	37 Ø		20pØ	At△	TO5		
50#	ASY54	200m	6.0M	4.0m	ØJ	30	15			10uØ	.20Ø	100mØ	15 △					△	R47		
51	MA1705	200m	6.0M△	2.6m	#J	25	25 §	25	500m	15u	1.0Ø	100mØ	200 †△	b	35 Ø		20pØ	At△	TO5		
52#	TK30	200m	6.0M	4.0m	ØJ	30		30			4.5Ø	1.0mØ	40	30u	1.1k		20p	A△			
53#	TK30C	200m	6.0M	4.0m	ØJ	30	10				4.5Ø	1.0mØ	40	30u	1.1k		20p	A△	R47		
54#	2G138	200m	7.0M	3.3m	#J	15	10	15	200m	6.0uØ	5.0Ø	1.0m			575	1.8	12p	AØ	TO5		
55#	2G601	200m	7.0M	3.3m	#S	20		20	200m	6.0u	5.0	1.0m					12p	A			
56#	2SA206†	200m	7.0M	3.3m	#J	30	20	20	200m	6.0uØ	6.0	1.0m	60	800nb	28	9.0	15p	A	TO5		
57#	ASY58	200m	7.0M§△	4.0m	ØJ	16	10	12		10u	0.0	10mØ	40 †△				15p	A△	R47		
58	MA1702	200m	7.0M△	2.6m	#J	45	30 §	30	500m	50u	1.0Ø	100mØ	200 †△	500nbØ	35 Ø		20pØ	At△	TO5		
59#	TK37C	200m	7.0M§△	4.0m	Ø	16		12		8.0u	.50Ø	10m	7.0				13p	A	R47		
60#	2G139	200m	8.0M	3.3m	#J	15	10	15	200m	6.0uØ	5.0Ø	1.0m			1.0k	1.5	12p	AØ	TO5		
61	KGS1002	200m	8.0M	2.9m	#S	15		1.0	400m	50u	6.0	1.0m	30		30		14p		TO5		
62#	TK28	200m	8.0M	4.0m	ØJ	26		20									18p	AΔ			
63#	TK28C	200m	8.0M	4.0m	ØJ	26	25	20			.10Ø	3.0mØ	46 †				18p	AΔ	R47		
64	2N25	200m	9.0M		*S	50	50	5.0	30m	3.5mØ								PC			
65#	2SA406†	200m	9.0M		#J	30	15	20	200m	7.0uØ	1.0Ø	10mØ	50 †				15p	A	TO5		
66#	2G602	200m	10M		#	20		20	200m	6.0u	5.0	500u					12p	A			
67	KGS1003	200m	10.M	2.9m	#S	15		1.0	400m	50u	6.0	1.0m	90		30		14p		TO5		
68#	2G140	200m	11M	3.3m	#S	15		20	200m	6.0u	5.0	500u					12p	A			
69#	ASY55	200m	11M	4.0m	ØJ	20	5.0	15		10u	.20Ø	100mØ	50 †	60u	1.8k			AΔ	R47		
70#	TK31	200m	11M	4.0m	ØJ	20		15			4.5Ø	1.0mØ	60	60u	1.8k		18p	AΔ			
71#	TK31C	200m	11M	4.0m	ØJ	20	5.0	15			4.5Ø	1.0mØ	60	60u	1.1k		18p	AΔ	R47		
72#	2G141	200m	12M	3.3m	#S	15		20	200m	6.0u	5.0	500u					12p	A			
73#	2G304	200m	12M§	3.0m	#A	30	30	10	300m	2.0uØ	6.0Ø	1.0mØ	130				8.5p	AΔ	R44		A
74#	2SA207†	200m	12M	3.3m	#J	30	15	20	200m	6.0uØ	6.0	1.0m	70	800nb	28	11	15p	A	TO5		
75#	ASY59	200m	12M§△	4.0m	ØJ	16	10	12		10u	0.0	10mØ	60 †△				13p	AΔ	R47		
76#	TK38C	200m	12M§△	4.0m	Ø	16		12		8.0u	.50Ø	10m	12				13p	A	R47		
77#	2SA407†	200m	14.M		#J	30	12	20	200m	7.0uØ	1.0Ø	10mØ	60 †				15p	A	TO5		
78#	2G306	200m	20M§	3.0m	#A	20	20	10	300m	2.0uØ	6.0Ø	1.0mØ	160				8.5p	AΔ	R44		A
79	KGS1004	200m	25.MΔ	2.9u		10						1.0mΔ	70 △					A	TO5		
80	2N2225†	200m	30.M	5.0m	#S	15	4.0	10	400m	25u	.50Ø	400mØ	60 †				14p	A	TO5		
81#	2SA90	200m	60.MΔ		#J	30		.50	20m	.50u	9.0Ø	1.5m	60				2.3p	D			
82#	2G404	200m	75.M§	3.1m	#J	20		1.0	25m	50u	6.0	1.0m	150				2.5p	AD	TO12		
83#	2G401	200m	80.M§	3.1m	#J	20	20 §	1.0	25m	50u	6.0Ø	1.0mØ	100 †				2.5p	AD	TO5		
84#	2G402	200m	80.M§	3.1m	#J	20	20 §	1.0	25m	50u	6.0Ø	1.0mØ	100 †				2.5p	ADØ	TO5		
85#	2G403	200m	130M§	3.1m	#J	40	40 §	1.0	25m	10uØ	6.0Ø	2.0mØ	100 †				2.5p	ADØ	TO12		
86	XT100	200m	300M§	2.6m	#S	35	30	4.0	500m	7.0uØ	1.5Ø	400mØ	35 †				1.5p	DΔ	TO9		
87#	2SA425	200m	350M§	3.3m	#J	30		.50	30m	10uØ	6.0	2.0m	25				3.3p	ME	TO5		
88#	2SA253	200m	450M		#J	20			30m	8.0u	5.0Ø	10m	30				2.5p	ME	TO39		
89#	2SA446†	200m	450M§	3.1m	#S	15	15 Ø	2.0	200m	10uØ	1.0Ø	100mØ	70 †				2.5p	EM	TO5		
90#	2SA426	200m	500M§	3.3m	#J	30		.50	30m	10uØ	6.0	2.0m	30				2.5p	ME	TO5		
91	GA53233	200m	500M		#S	20			10m		20	10m	3.0				5.0p	DΔ			
92#	2SA244	200m	600M	3.3m	#J	25	20 Ø	.50	30m	8.0uØ	6.0Ø	5.0m	30				3.0p	ME.	R24		
93#	2SA238	200m	700M		#J	25	20 Ø	.50	30m	5.0uØ	6.0Ø	5.0m	30				2.5p	ME	R24		
94#	2SA245	200m	700M	3.3m	#J	25	20 Ø	.50	30m	8.0uØ	6.0Ø	5.0m	30				3.0p	ME	R24		
95#	2SB370AH	200m	1.4G			32	32 Ø	12	500	25m	1.0Ø	15mØ	70 †△					A	TO1		
96#	AC139/AC142	210m	1.5m	3.3m	#J	40	25	3.0	1.2	10uØ	0.0	400mØ	100 †				40p	A			
97#	AC120	210mØ	1.5M	20m	ØJ	20	20	10	300m	30u	5.0Ø	100mØ	50 †	550u	210	12	85p	A	TO1		
98	AC139K/AC142	210m	1.5M	3.3m	#J	40	25	3.0	1.2	10uØ	0.0	400mØ	100 †				40p	A			
99#	AC131	215m		3.3m	#J	30	18 *	10	1.0	30u	2.0Ø	150mØ	120 †#					A	R48a		A
100#	AC131-30	215m		3.3m	#J	45	32 *	10	1.0	30u	2.0Ø	150mØ	120 †#	•				A	R48a		A
101#	AC135	220m	1.5M	2.9m	#J	20	20 Ø	2.5	250m	14uØ		50m	70 †					A	TO1		
102#	AC136	220m	1.5M	2.9m	#J	40	40 Ø	2.5	250m	14uØ		50m	100 †					A	TO1		
103#	AC137	220m	1.5M	2.9m	#J	20	20 Ø	25	250m	14uØ	6.0Ø	1.0mØ	100					A	TO1		
104#	AC138H	220m	1.5M	3.3m	#J	50		10	1.2	14uØ	6.0Ø	5.0mØ	100					A	TO1		
105#	AC142H	220m	1.5M	3.3m	#J	50		10	1.2	14uØ		400m	80 †					A	TO1		
106#	2SB330	225m			#J	110		50	150m	20uØ	1.0Ø	2.0mØ	35 †					A	TO5		
107#	AC116	225m*Ø		5.0mØ	#J	30	18 *	12	200m	20u	6.0Ø	4.0mØ	55 △*				21p	A	X9		A
108#	AC123	225m*Ø		5.0mØ	#J	45	32 *	12	200m	16uØ	6.0Ø	4.0mØ	55 △*				21p	A	X9		A
109#	SFT244	225m		3.7m	#J	80		25	500m	25u	1.0Ø	100mØ	40 †					A	TO5		
110#	SFT245	225m		3.7m	#J	100		25	500m	50u	1.0Ø	100mØ	40 †					A	TO5		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1#	2SB174	225m	.70M		ØJ	20		6.0	300m	20uØ	1.0Ø	300m	65 †					A	R8	
2#	2SB219	225m	1.0M	3.7m	#J	30	25 §	10	200m	16uØ	1.0Ø	20mØ	31 †				25p	A	TO5	
3#	2SB326	225m	1.0MΔ		#J	30		15	500m	10u	1.0Ø	20mØ	65 †					A	TO5	
4#	2SB327	225m	1.0MΔ		#J	30		15	500m	10u	1.0Ø	20mØ	110 †					A	TO5	
5#	2SB220	225m	1.5M	3.7m	#J	30	25 §	10	200m	16uØ	1.0Ø	20mØ	50 †				25p	A	TO5	
6#	2G319	225m	2.0M	3.7m	#J	30	20 §	3.0	200m	16uØ	1.0Ø	20mØ	35 †	b	30		27p	At	TO5	
7#	2G524†	225m	2.0M	3.7m	#J	45	30 §	15	500m	10uØ	5.0Ø	1.0m	30	650nb	3.1	4.0	27p	At	TO5	
8#	2G1024†	225m	2.0M	3.7m	#J	70	40 §	20	500m	30u	5.0Ø	1.0m	30	700nb	30	4.0	27p	At	TO5	
9#	2SB218	225m	2.0M	3.7m	#J	80	40 §	20	500m	10uØ	1.0Ø	200mØ	50 †				30p	A	TO5	
10#	2SB221	225m	2.0M	3.7m	#J	30	25 §	10	200m	16uØ	1.0Ø	20mØ	72 †				25p	A	TO5	
11#	2SB224	225m	2.0M	3.7m	#J	45	30 §	15	500m	10uØ	1.0Ø	20mØ	35 †					A	TO5	
12#	2G320	225m	2.5M	3.7m	#J	30	20 §	3.0	200m	16uØ	1.0Ø	20mØ	54 †	b	30		27p	AØ	TO5	
13#	2G525†	225m	2.5M	3.7m	#J	45	30 §	15	500m	10uØ	5.0Ø	1.0m	44	600nb	3.1	5.0	27p	At	TO5	
14#	2G577	225m	2.5M	3.7m	#J	70	30 §	20	500m	30uØ	5.0Ø	1.0m	65	500nb	29	5.0	27p	At△	TO5	
15#	2G1025†	225m	2.5M	3.7m	#J	70	40 §	20	500m	30u	5.0Ø	1.0m	44	640nb	29	4.5	27p	At	TO5	
16#	2SB222	225m	2.5M	3.7m	#J	30	25 §	10	200m	16uØ	1.0Ø	20mØ	97 †				25p	A	TO5	
17#	2SB225	225m	2.5M	3.7m	#J	45	30 §	15	500m	10uØ	1.0Ø	20mØ	53 †					A	TO5	
18#	2G526†	225m	3.0M	3.7m	#J	45	30 §	15	500m	10uØ	5.0Ø	1.0m	64	420nb	30	6.5	27p	At	TO5	
19#	2G1026†	225m	3.0M	3.7m	#J	70	40 §	20	500m	30u	5.0Ø	1.0m	64	450nb	28	5.0	27p	At	TO5	
20#	2SB223	225m	3.0M	3.7m	#J	30	25 §	15	200m	16uØ	1.0Ø	20mØ	150 †				25p	A	TO5	
21#	2SB226	225m	3.0M	3.7m	#J	45	30 §	15	500m	10uØ	1.0Ø	20mØ	73 †					A	TO5	
22#	2G321	225m	3.1M	3.7m	#J	30	20 §	3.0	200m	16uØ	1.0Ø	20mØ	85 †	b	30		27p	AØ	TO5	
23#	2G527†	225m	3.3M	3.7m	#J	45	30 §	15	500m	10uØ	5.0Ø	1.0m	81	370nb	29	8.0	27p	At	TO5	
24#	2G1027†	225m	3.3M	3.7m	#J	70	40 §	20	500m	30u	5.0Ø	1.0m	87	420nb	28	5.2	27p	At	TO5	
25#	2SB227	225m	3.3M	3.7m	#J	45	30 §	15	500m	10uØ	1.0Ø	20mØ	91 †					A	TO5	
26#	2SA86	225m	50.M	5.0m	#	45		1.0	10m		9.0	1.0m	80	8.5u	2.2k	1.7	2.2p		TO44	
27	PET8350	225m	150M§	2.3m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	65	140u	250	2.0	5p$	PE	R110	A
28	PET8352	225m	150M§	2.3m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	65	140u	250	2.0	5p$	PE	R110 a	A
29	PET8351	225m	200M§	2.3m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	125	200u	400	2.0	5p$	PE	R110	A
30	PET8353	225m	200M§	2.3m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	125	200u	400	2.0	5p$	PE	R110 a	A
31	AFY39	225m	500M§	2.2m	#J	32	32 Ø	.30	32m	.40uØ								ME	R96	
32	2N509	225m	750M	3.0m	#J	30		1.0	40m	5.0uØ	10	10m	15	10ub	6.0	13	2.5p	DΔ		
33#	ASY12	227m		4.5m	ØJ	32	32 §		600m	20uØ	.60Ø	600mØ	20 †Δ					A	R43	
34#	ASY13	227m		4.5m	ØJ	60	60 §		600m	20uØ	.60Ø	600mØ	20 †Δ					A	R43	
35#	OC318	227m	1.5M	4.5m	ØJ	20	20 §		300m	20uØ	1.0Ø	300mØ	65 †					A	R43	
36	2N1056	240m	500kΔ	4.0m	#J	70	50 #	15	300m	25u	1.0Ø	20mØ	18 †Δ				60pØ	A	R32	AØ
37#	2G270	240m	2.5M	4.0m	#J	30	20 §		200m	16u	1.0Ø	100m	40 †		120			AØ	TO5	
38#	2G271	240m	3.1M	4.0m	#J	30	20 §		200m	16u	1.0Ø	100m	75 †		200			AØ	TO5	
39	2N1384†	240m	35.M	4.0m	#A	30	30	1.0	500m	50u	.50Ø	200mØ	50 †					D	TO11	A
40#	SFT162	240m	70.M§	4.0m	#J	70		.50	10m	15u	12Ø	6.0mØ	50 Δ				3pØ	D	TO44	
41	2N2718†	240m	150M§Δ	3.2m	#S	20	12	3.5	400m	7.0uØ	.27Ø	170mØ	25 †Δ				10pØ		TO5	
42#	2SB89	250m				25	25 Ø	12	150m	16u	6.0Ø	1.0mØ	55	20u	1.8k	3.3		A	TO7	
43#	2SB89A	250m				45		12	150m	50u	1.0	150m	65					A	R27	
44	GA52996	250m			#S	100		100	50m	3.0mØ								PC		
45	TF75	250mØ			*A		13		125m			20mØ	30							
46#	2SB200	250m	500k†	5.0mØ	ØJ	32	32 §	12	400m	40uØ	1.0Ø	150mØ	30 †Δ					A	R10	
47#	2SB200A	250m	500k†	5.0mØ	ØJ	45	45 §	12	400m	40uØ	1.0Ø	150mØ	30 †Δ					A	R10	
48#	2SB202	250m	500k†	5.0mØ	ØJ	32	32 §	12	400m	40uØ	1.0Ø	150mØ	70 †Δ					A	R10	
49	T1000	250m	.60M										85 Ø						TO25	
50	T1001	250m	.60M										120 Ø						TO25	
51#	2G381	250m	1.0M§Δ			20	20 §	3.0	500m		6.0Ø	1.0mØ	30 Δ				35pØ	AΔ	R51	
52#	2G382	250m	1.0M§Δ			30	30 §	10	500m		6.0Ø	1.0mØ	30 Δ				35pØ	A	R51	
53#	2G383	250m	1.0M§Δ	3.8m	#J	70	30	12	1	10uØ	1.0Ø	50mØ	40 †Δ					A	TO5	
54#	2G384	250m	1.0M§Δ	3.8m	#J	50	25	12	1	10uØ	1.0Ø	50mØ	55 †Δ					A	TO5	
55#	2G385	250m	1.0M§Δ	3.8m	#J	50	25	12	1	10uØ	1.0Ø	50mØ	100 †Δ					A	TO5	
56#	2G386	250m	1.0M§Δ	3.8m	#J	40	20	12	1	10uØ	1.0Ø	50mØ	55 †Δ					A	TO5	
57#	2G387	250m	1.0M§Δ	3.8m	#J	40	20	12	1	10uØ	1.0Ø	50mØ	100 †Δ					A	TO5	
58#	2SB268	250m	1.0M	4.1m	#J	30	30 §	15	150m	10uØ	1.0Ø	150mØ	70 †					A	R27	A
59#	2SB317	250m	1.0M	4.2m	#J	16	16 Ø	6.0	300m	14uØ	1.0Ø	150mØ	60 †					A	R27	
60#	2SB89AH	250m	1.5M			45	45 Ø	12	150m	50u	6.0Ø	1.0m	60	20u	1.8k	3.3		A	TO7	
61#	2SB89H	250m	1.5M			30	30 Ø	12	150m	12u	6.0Ø	1.0m	60	20u	1.8k	3.3		A	TO7	
62#	2SA41	250m	6.0M			35		20	40m	50u	6.0Ø	1.0m	45	23u	1.3k	2.9	10p	A	TO1	
63#	2SA42	250m	6.0M			45		20	40m	50u	6.0Ø	1.0m	45	21u	1.3k	2.7	10p	A	TO1	
64	2N1174†	250m	7.0M	3.3m	#J	35		35	200m	10uØ	10Ø	500uØ	85	170nb	56	8.3	15p	AØ	TO29	
65#	ALZ10	250m	30M§	5.0m	ØJ	50		.70	250m	30u	6.0Ø	4.0mØ	40 Δ				15pØ		R95	Ø
66	2N1495A	250m	150M§	3.3m	#S	40	25	4.0	500m	2.0uØ	.50Ø	200mØ	25 †Δ				6.5p		TO9Ø	
67	2N1403	250m	200MΔ	3.0m	#S	15	12	1.0	100m	7.0uØ	1.5Ø	7.0mØ	25 †Δ				6pØ		RO24Ø	
68	2N537	250m	600M§	3.3m	#J	30		1.0	100m	3.0uØ	10	10m	24	12ub	5.7		3.0p	D	TO29	
69#	2SA373	250m	640M			25	12	.50	150m	15u	10	5.0m	40 †				3.2p	EM	TO5	
70	XT200	250m	1.0G§	3.3m	#S	35		2.0	300m	5.0uØ							11p	D	TO9	
71#	AC142H-K	260m	1.5M	4.0m	#J	50		10	1.2	14uØ		400m	80 †					A	TO1	
72#	2SB381	270m	1.3M		#J	32	30 §		300m	10u	1.0Ø	20mØ	42 †	500nb	27	3.5		A	TO5	
73#	2SB377	270m	1.4MΔ		#J	32	30 §		150m	10u	6.0Ø	.50m	134					AØ	TO5	
74#	2SB382	270m	1.5M		#J	32	30 §		300m	10u	1.0Ø	20mØ	84 †	500nb	27	5.0		A	TO5	
75#	2SB383	270m	3.0M		#J	32	30 §		500m	10u	1.0Ø	20mØ	84 †					A	TO5	
76	2N2786A	280m	225M§Δ	4.3m	#S	35	20	.50	150m	10uØ	2.0Ø	100mØ	33 †Δ		30		5.0pØ	PD	TO39	AØ
77	2N1287	300mØ		2.5m	#S	25	25 §	15	300m	15uØ	5.0Ø	10mØ	40 Δ						MD27a	CØ
78	2N1287A	300mØ		2.5m	#S	25	25 §	15	300m	15uØ	5.0Ø	10mØ	60 Δ						MD27a	CØ
79	2N2100A†	300m		4.0m	#S	40	20	4.0	500m	12uØ	1.0Ø	200mØ	30 †Δ				20pØ		TO9	
80	B1022	300m		2.5m	#	15		15	300m	25u	5.0	10m	20		2.0k				TO5	
81#	2SB201	300m	.50M	4.5mØ	J	35	35 §	12	400m	30uØ	1.0Ø	150mØ	60 †					AΔ	TO5	A
82#	AT128	300m	.70M§	5.0m	#J	32	32 Ø	15	1 #	14u								A	TO1	A
83#	2SB451	300m	1.0M	5.0m	#J	25	25 Ø	6.0	1.0	30uØ	1.0Ø	150mØ	80 †					A	R107 b	
84#	2SB452	300m	1.0M	5.0m	#J	25	25 Ø	6.0	1.0	30uØ	1.0Ø	150mØ	150 †					A	R107 b	
85#	2SB452A	300m	1.0M	5.0m	#J	32	25 Ø	6.0	1	30uØ	1.0Ø	150mØ	150 †					A	R107 b	
86#	NKT251	300m	1.0M	5.0m	#J	18	18 Ø		500m	5.0u	1.5Ø	200mØ	50 †Δ					A	TO22	
87#	NKT253	300m	1.0M	5.0m	#J	18	18 Ø		500m	5.0u	1.5Ø	200mØ	25 †Δ					At	TO22	
88#	NKT261	300m	1.0M	5.0m	#J	15	15 §	5.0	500m#	10uØ	1.5Ø	50mØ	50 †Δ						TO5	AØ
89#	NKT262	300m	1.0M	5.0m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1.0mØ	35 Δ						TO5	AØ
90#	NKT263	300m	1.0M	5.0m	#J	18	18 Ø		500m	5.0u	1.5Ø	200mØ	25 †Δ					At	TO5	
91#	NKT264	300m	1.0M	5.0m	#J	15	15 §	5.0	250m	10uØ	4.5Ø	1.0mØ	85 Δ						TO5	AØ
92#	NKT222S1	300m	1.2M§	5.0m	#J	40	30 Ø	12	1	100u	0.0	50mØ	50 †Δ				40p	AΔ	TO5	
93#	NKT201	300m	1.5M	5.0m	#J	30	30 Ø	10	500m	40u	4.5	500m	70 †	1.0u	65	7.0	45p	A	TO22	
94#	NKT208	300m	1.5M	5.0m	#J	30	30 Ø	10	500m	40u	4.5	500m	70 †	1.0u	65	7.0	45p	A	TO22	
95#	NKT231	300m	1.5M	5.0m	#J	15	15 Ø	10	500m	25u	4.5	1.0m	110	1.0ub	65	7.0	40p	A	TO5	
96#	NKT232	300m	1.5M	5.0m	#J	15	15 Ø	10	500m	25u	1.5	150m	150 †	1.0ub	65	7.0	40p	A	TO5	
97#	NKT222S2	300m	1.8M§	5.0m	#J	40	30 Ø	12	1	100u	0.0	50mØ	50 †Δ				60p	AΔ	TO5	
98	2SB421	300m	2.5M	5.0m	#J	80	80 §	1.0	600m	50uØ	1.0Ø	150mØ	70 †				50p	D	R93	
99	CP800	300m	2.5MΔ	4.0m	#J	45		30	1.5	25u	.50Ø	1 Ø	20				20p	A	TO5	
100	CP801	300m	5.0MΔ	4.0m	#J	45		30	1.5	25u	.50Ø	1 Ø	30				20p	A	TO5	
101	CP802	300m	10.MΔ	4.0m	#J	30		20	1.5	25u	.50Ø	1 Ø	40				20p	A	TO5	
102	CP803	300m	15.MΔ	4.0m	#J	30		20	1.5	25u	.50Ø	1 Ø	50				20p	A	TO5	
103	2N3443	300m	75M§Δ	4.0m	#S	20	15	1.0	100m	5.0uØ	10Ø	10mØ	20 Δ				2.5pØ		TO5	
104#	2G110	300m	200M§	5.0m	#J	36	15	2.5	50m	10u	3.0	50m	15				3.5p	ME	TO5	
105	TI440	300mØ	300M			15		3.5	50m	3.0uØ	.30Ø	10mØ	25 †Δ				5.0p	MEΔ	TO50	
106	2N2238	300m	400M§Δ	4.0m	#S	30	30 Ø	1.0	50m	5.0uØ	10	10m	25 Δ				2.2p$Ø		TO5	AØ
107#	MM2552†	300m	1.0G§Δ	4.0m	#J	20	10	.50	100m	10uØ	5.0Ø	25mØ	30 †Δ				3.0pØ	EM	TO5	A
108#	MM2554†	300m	1.0G§Δ	4.0m	#J	20	10	.50	200m	10uØ	5.0Ø	40mØ	20 †Δ				4.0pØ	EM	TO5	A
109	XT200A	300m	1.0G§		#S	30	15	1.0	300m	100u	15Ø		7.0 §				8.0p	D	TO31	
110	TI442	300mØ	3.0G			12		1.0	50m	3.0uØ	.50Ø	10mØ	20 †Δ				5.0p	MEΔ	TO50	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

2. GERMANIUM PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C O A D E
1#	ASY12-1	330m*		2.5m	ØJ		32	18	10	600m		.60Ø	600mØ	30 †					A	R43	
2#	ASY12-2	330m*		2.5m	ØJ		32	18	10	600m		.60Ø	600mØ	40 †					A	R43	
3#	ASY13-1	330m*		2.5m	ØJ		60	30	10	600m		.60Ø	600mØ	30 †					A	R43	
4#	ASY13-2	330m*		2.5m	ØJ		60	30	10	600m		.60Ø	600mØ	40 †					A	R43	
5#	2SB67	350m	1.0M				55		12	150m	10u	6.0Ø	1.0m	45	21u	1.3k	2.1	45p	A	TO1	
6#	2SB67A	350m	1.0M				60		30	150m	10u	6.0Ø	1.0m	45	21u	1.3k	2.1	45p	A	TO1	
7#	SFT124	350m	1.0M	5.9m	#J		24		12	500m	20u	1.0Ø	250mØ	30 †		220			A	R13	
8#	SFT142	350m	1.0M	5.9m	#J		45	20	25	500m	20u	1.0Ø	250mØ	30 †		220		60p	A	R13	
9#	SFT144	350m	1.8M	5.9m	#J		45	20	25	500m	20u	1.0Ø	250mØ	60 †		380		60p	A	R13	
10#	SFT125	350m	2.0M	5.9m	#J		24		12	500m	20u	1.0Ø	250mØ	70 †		500			A	R13	
11#	SFT125P	350m	2.0M	5.9m	#J		30	15	15	500m	25u	1.0Ø	250mØ	70 †		500			A	R13	
12#	2SA359	350m	250M				20			20m	15u	6.0Ø	5.0mØ	30				3.5p	ME	TO5	
13	2N2962	350m	560M§△	4.6m	#S		40	18	1.5	300m	5.0uØ							10pØ			
14	2N2963	350m	560M§△	4.6m	#S		40	18	1.0	300m	5.0uØ							10pØ			
15	2N2964	350m	560M§△	4.6m	#S		30	15	1.5	300m	5.0uØ							10pØ			
16	2N2965	350m	560M§△	4.6m	#S		30	15	1.0	300m	5.0uØ							10pØ			
17	MN13A	380m	.75M	14m	#S		40		20	150m	25uØ	12Ø	25m	15					A		
18	MN13B	380m	1.3M	14m	#S		40		20	150m	25uØ	12Ø	25m	30					A		
19	MN13C	380m	2.4M	14m	#S		40		20	150m	25uØ	12Ø	25m	60					A		
20#	AC105	400m		13mØ	J		40	18	10	1	8.0uØ	1.0Ø	9.0mA	45 †△					A	X12	
21#	AC106	400m		13mØ	J		40	18	10	1	8.0uØ	1.0Ø	2.7mA	150 †△					A	X12	
22#	ACY24	400m			ØJ		70		30	300m	60u	10	5.0m	60					A	X9	
23#	ACZ10	400m		14m	ØJ		70	50	30	300m	55u									X12	
24	2N1009	400mØ	7.5k△	6.6mØ	#S		35	35 §	10	300m	10uØ	5.0Ø	10mØ	40 △	500uØ	2.0kØ				TO5	A
25	KF2000	400m	.01M	5.6m	#J		80	50 Ø	20	3	100uØ	.50Ø	1 Ø	35 †△					AØ	TO5	AØ
26	KF2001	400m	.01M	5.6m	#J		120	100 Ø	20	3	100uØ	.50Ø	1 Ø	40 †△					AØ	TO5	AØ
27	KF2002	400m	.01M	5.6m	#J		80	50 Ø	20	3	100uØ	.50Ø	1 Ø	35 †△					AØ	TO5	AØ
28	KF2003	400m	.01M	5.6m	#J		120	100 Ø	20	3	100uØ	.50Ø	1 Ø	40 †△					AØ	TO5	AØ
29	2N2827	400m	17k†		#J		40	30	20	1.5		2.0Ø	100m	75 †△						TO37	
30#	GET15	400m	1.0M	10m	*J		15			350m				55				65p	A		
31#	44T1	400m	1.2M		#J		45		5.0	300m	16u	1.0Ø	150mØ	54				35p		MS4	
32	B1154	400mØ	1.5M	6.7m			60						10mØ	60 †					A		
33#	125T1	400m	2.0M	12u	#J		20	20		400m	16uØ	20	1.0m	44	2.7u	1.4	3.4			TO5	
34#	126T1	400m	2.5M	12u	#J		20	20		400m	16uØ	20	1.0m	64	26u	1.9	1.0			TO5	
35#	127T1	400m	3.0M	12u	#J		20	20		400m	16uØ	20	1.0m	81	90u	2.3	6.0			TO5	
36	AC139K/AC142K																				
		420m	1.5M	6.7m	#J		40	25	3.0	1.2	10uØ	0.0	400mØ	100 †				40p	A	TO1	
37#	SFT235	450m	.30M	7.7m	#J		100	60	20	1	750u	.50Ø	1 Ø	40 †					A	TO11	
38#	2SB105	500m	500k	10m	ØJ		30		10	500m	100u	2.0Ø	200mØ	70 †					A	R20	
39#	2SB108	500m	500k	10m	ØJ		40		10	500m	100u	2.0Ø	200mØ	70 †					A	R20	
40#	2SB108A	500m	500k	10m	ØJ		60		10	500m	100u	2.0Ø	200mØ	70 †					A	R20	
41#	2SB108B	500m	500k	10m	ØJ		80		10	500m	100u	2.0Ø	200mØ	70 †					A	R20	
42	GA52830	500m	8.0M	50m	#J		40		40	500m	100uØ	4.5Ø	20mØ	215	250nb	28	7.6	47p	A△		
43	2N3601†	500m	20M§△	6.7m	#S		100	40	2.5	3.5	200uØ	1.5Ø	1.0 Ø	60 †△						RO81Ø	
44	2N3603†	500m	20M§△	6.7m	#S		130	55	2.5	3.5	200uØ	1.5Ø	1.0 Ø	60 †△						RO81Ø	
45#	17T1	550m		9.1m	#J		35			500m			20mØ	100 †							
46#	18T1	550m		9.1m	#J		25			500m			20mØ	100 †							
47#	OC74N	550mØ	8.0k†△	11m	ØJ		20	10	6.0	300m	20uØ	6.0	50mØ	60 †△					A	TO1	A
48#	SFT130	550m	1.0M	9.1m	#J		24		12	500m	20u	1.0Ø	250mØ	30 †		220			A	MS5	
49#	SFT145	550m	1.0M	9.1m	#J		45	20	25	500m	20u	1.0Ø	250mØ	30 †		220		60p	A	MS5	
50#	SFT146	550m	1.8M	9.1m	#J		45	20	25	500m	20u	1.0Ø	250mØ	60 †		380		60p	A	MS5	
51#	SFT131	550m	2.0M	9.1m	#J		24		12	500m	20u	1.0Ø	250mØ	70 †		500			A	MS5	
52#	SFT131P	550m	2.0M	9.1m	#J		30	15	15	500m	25u	1.0Ø	250mØ	70 †		500			A	MS5	
53#	AFY10	560m*Ø	250M§	4.0m	#J		30	15	1.0	70m	18uØ	10Ø	10mØ	60				1.2p	ME Ø	TO5	
54#	AFY11$	560m	550M§	4.0m	#J		30	15	1.0	70m	18uØ	10Ø	10mØ	60				2.2p	ME Ø	TO39	A
55#	2SB271	600m					25						100mØ	80 †					A	TO1	
56#	2SB272	600m					25						100mØ	200 †					A	TO1	
57#	2SB273	600m					25						100mØ	150 †					A	TO1	
58	OC83	600m	.85M§	4.0m	#J		32	20	3.0	500m	100u	6.0Ø	1.0mØ	90					A△	TO1	A
59#	OC84	600m	1.0M§	4.0m	#J		32	32	10	500m	100u	6.0Ø	1.0mØ	90					A△	TO1	A
60#	2SB106	700m	500k		ØJ		30		10		100u	2.0Ø	200mØ	20 †△					A	R20	
61#	2SB109	700m	500k		ØJ		40		10		100u	2.0Ø	200mØ	15 †△					A	R20	
62#	2SB109A	700m	500k		ØJ		60		10		100u	2.0Ø	200mØ	15 †△					A	MM5	
63#	2SB109B	700m	500k		ØJ		80		10		100u	2.0Ø	200mØ	15 †△					A	MM5	
64#	NKT351	700m	1.0M	100m	#J		30		5.0	2.5	100uØ	0.0Ø	1.0 Ø	30 †△						R56b	A
65#	NKT352	750m		11m	#J		15	15 Ø	5.0	2	100uØ	1.5	1.0	20 †△						TO8	
66#	NKT361	750m		11m	#J		30	30 Ø	5.0	2	100uØ	1.5	1.0	15 †△						R91	
67#	NKT362	750m		20m	#J		15	150 Ø	5.0	2	100uØ	1.5	1.0	20 †△						R91	
68#	NKT301	750m	1.0M	11m	#J		60	40	15	2	1.0m	0.0	2.0 Ø	30 †△					A	TO8	
69#	NKT302	750m	1.0M	11m	#J		60	40	15	2.5	50uØ	0.0Ø	50mØ	50 †△						R56b	A
70#	NKT303	750m	1.0M	11m	#J		30	20	15	2	1.0m	0.0	2.0 Ø	30 †△					A	TO8	
71#	NKT304	750m	1.0M	11m	#J		30	20	15	2.5	50uØ	0.0Ø	50mØ	50 †△						R56b	A
72#	V6/2RJ	750m	3.0M	2.5m	ØJ		6.0			30m		4.5	1.0m	30						TO5	
73	2N3602†	750m	20M§△	10m	#S		100	40	2.5	3.5	200uØ	1.5Ø	1.0 Ø	60 †△						RO81Ø	
74	2N3604†	750m	20M§△	10m	#S		130	55	2.5	3.5	200uØ	1.5Ø	1.0 Ø	60 †△						MT58Ø	
75#	GM378A	750m	400M§△				20	15	.30	50m			3.0mØ	20 †△					EMØ	R80	X
76#	GM290A	750m	700M§				20	15	.30	50m			3.0mØ	20 †△					EM	R80	X
77#	2SB458	800m		13mØ	#J		25	25 Ø	12	1.0	100uØ	1.5Ø	500mØ	28 †△					A	MD17	CØ
78#	2SB458A	800m		13mØ	#J		45	45 Ø	12	1.0	100uØ	1.5Ø	500mØ	28 †△					A	MD17	CØ
79#	2SB458B	800m		13mØ	#J		100	100 Ø	12	1.0	50uØ	1.5Ø	500mØ	28 †△					A	MD17	CØ
80#	ACY16	800m	.37M△	3.3m	#J		45	30	10	400m	30uØ	1.0Ø	300mØ	40 †△					A	X9	
81#	GET105	800m	1.0M	20m	#J		40			1	25u	5.0Ø	50mØ	30 †					A	MM6	
82#	GET110	800m	1.0M	20m	#J		40		12	1	25u	.50Ø	500mØ	20 †					A	MM6	
83#	GET115	800m	1.0M	20m	#J		15			1	25u	5.0Ø	50mØ	30 †					A	MM6	
84#	GET116	800m	1.0M	20m	#J		30			1	25u	5.0Ø	50mØ	30 †					A	MM6	
85#	GET120	800m	1.0M△	20m	#J		30		12	1	25u	.50Ø	500mØ	20 †					A	MM6	
86	2N2098	1.0 Ø	500M§△	13mØ	#S		30	15	1.0	300m	15uØ							8.0pØ		TO9	AØ
87#	2SB372	1.5 Ø		25m	#		25	25 §	10	1.0	50uØ	1.5Ø	200mØ	70 †					A	TO5	
88#	2SB373	1.5 Ø		25m	#		25	25 §	10	1.0	50uØ	1.5Ø	200mØ	150 †					A	TO5	
89#	2SB374	1.5 Ø		25m	#		60	60 §	10	1.0	50uØ	1.5Ø	200mØ	150 †					A	TO5	
90	2N80	50			Ø		25			8.0m	300u†Ø	6.0	1.0mØ	80							
91	2N96	50	.50M		*A		30		30	20m	10u	6.0Ø	1.0m	35 △				55			

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. GERMANIUM NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	2N100	25m	5.0M		*A	25			5.0m	2.0uØ									
2#	2SC75	30m	10.M		ØJ	15			5.0m	8.0u	6.0	1.0m	24		38		2.1p	G	R14
3#	2SC76	30m	10.M		ØJ	15			5.0m	8.0u	6.0	1.0m	24		38		2.1p	G	R14
4#	2SC77	30m	10.M		ØJ	15			5.0m	8.0u	6.0	1.0m	24		38		2.1p	G	R14
5#	2SC175	30m	10.M		ØJ	15			5.0m	8.0u	6.0	1.0m	24		38		2.1p	G	R17
6#	2SC176	30m	10.M		ØJ	15			5.0m	8.0u	6.0	1.0m	24		38		2.1p	G	R17
7#	2SC177	30m	10.M		ØJ	15			5.0m	8.0u	6.0	1.0m	24		38		2.1p	G	R17
8#	2SC73	30m	20.M		ØJ	15			5.0m	8.0u	6.0	1.0m	41		35		2.0p	G	R14
9#	2SC78	30m	20.M		ØJ	15			5.0m	2.0u	6.0	1.0m	49	.20u	33	2.0	1.5p	G	R14
10#	2SC173	30m	20.M		ØJ	15			5.0m	8.0u	6.0	1.0m	41		35		2.0p	G	R17
11#	2SC178	30m	20.M		ØJ	15			5.0m	2.0u	6.0	1.0m	49	.20u	33	2.0	1.5p	G	R17
12	3N22	30m	24M		#J	15		2.0		10u			50	100ub			2.0p	G§	
13	3N36	30m	50.M	500u	#J	7.0		2.0	20m	10u	5.0	1.5m	9.0	1.2m	1.1k	220	2.0p		TO12
14	3N37	30m	90.M	500u	#J	7.0		2.0	20m	10u	5.0	1.5m	13	1.4m	85	180	1.5p	△	TO12
15#	2T53	40m		2.0m	*	25			5.0m	120uØ	4.5	1.0m					5.0p	G	
16#	2T54	40m	1.5M	2.0m	*	25			5.0m	12uØ	4.5	1.0m					5.0p	G	
17#	2T52	40m	2.5M	2.0m	*	25			5.0m	10uØ	4.5	1.0m					5.0p	G	
18#	2T51	40m	4.0M	2.0m	*	25			5.0m	10uØ	4.5	1.0m					5.0p	G	
19#	2T55	50m		1.2m	*J	25			10m	12u	6.0	1.0m	19				1.0p	G	
20#	2T56	50m		1.2m	*J	25			10m	12u	6.0	1.0m	19				1.0p	G	
21#	2T57	50m		1.2m	*J	25			10m	12u	6.0	1.0m	19				1.0p	G	
22#	2T58	50m		1.2m	*J	25			10m	12u	6.0	1.0m	19				1.0p	G	
23#	TF72	50m	.50M		*A	60			25m		5.0	1.0mØ	99	30u	2.0k	6.0		G	
24#	3604	50m	800k		*A	40		5.0	5.0m	10u	4.5	1.0m	13		850	5.0	30p		
25#	3607	50m	.80M		*A	40		5.0	5.0m	10u	4.5	1.0m	32		850	5.0	30		
26	2N97A	50m	1.0M		#	40			10m	2.0u	4.5	1.0m	13				19p	G△	
27#	3609	50m	1.8M		*A	40		5.0	5.0m	10u	4.5	1.0m	32		3.0k	10	20		
28	2N98A	50m	2.5M		#	40			10m	2.0u	4.5	1.0m	40				14p	G△	
29	GA53270	50m	3.4M	1.4m	#A	30		20	50m	10u	4.5	1.0m	49	280nb	27	1.8	42p	A	
30	3N23	50m	4.0M		ØA	30			5.0m	1.0uØ							5.0p	$	
31	2N127	50m	5.0M	1.4m	ØJ	10		5.0	8.0m	2.0uØ	6.0	5.0mØ	100 △†	200nb	59		10p		OV9
32#	2SC60	50m	5.0M△	588u	#J	20	20 Ø	10	20m	15u	6.0Ø	1.0mØ	50				25pØ	A	TO1
33	3N23A	50m	6.0M		ØA	30			5.0m	1.0uØ							4.0p	$	
34	3N23B	50m	8.0M		ØA	30			5.0m	1.0uØ							3.0p	$	
35#	2T76	50m	10M	1.0m	ØJ	15			5.0m	8.0u	6.0	1.0m	19	130nb	38	170m	1.5p	G	
36	3N23C	50m	10.M		ØA	30			5.0m	1.0uØ							2.0p	$	
37#	2T71	50m	20.M	1.2m	*J	25			10m	12u	6.0	1.0m	49				1.0p	G	
38#	2T72	50m	20.M	1.2m	*J	25			10m	12u	6.0	1.0m	32				1.0p	G	
39#	2T73	50m	20M	1.0m	ØJ	15			5.0m	8.0u	6.0	1.0m	49	130nb	38	170m	1.4p	G	
40	3N31	50m	20.M		#J	7.0			20m	25u							3.1p	$	
41#	3T203	50m	20.M		*	30			5.0m	10uØ	22	2.0m						$	
42#	2T78	50m	30M	1.0m	ØJ	15			5.0m	2.0u	6.0	1.0m	45	130nb	38	170m		G	
43	3N29	50m	40.M		#J	7.0			20m	25u							4.2p	$	
44#	3T202	50m	40.M		*	30			5.0m	10uØ	22	2.0m						$	
45#	3T201	50m	60.M		*	25			5.0m	10uØ	22	2.0m						$	
46	3N30	50m	80.M		#J	7.0			20m	25u							5.0p	$	
47	4JD3B1	50m	100M		#J		10	2.0	20m								2.0p	$	
48#	2SC11	55m	6.0M		ØJ	18		12	24m	9.0u	6.0	1.0m					12p	A	TO1
49	2N148	65m		1.3m	Ø	16			5.0m	200nØ	12	500uØ	35 §				1.0p	G	
50	2N148A	65m		1.3m	Ø	32			5.0m	200nØ	12	500uØ	35 §				1.0p	G	
51	2N149	65m		1.3m	Ø	16			5.0m	3.0uØ	12	500uØ	38 §				3.0pØ	G	
52	2N149A	65m		1.3m	Ø	32			5.0m	200nØ	12	500uØ	38 §				1.0p	G	
53	2N150	65m		1.3m	Ø	16			5.0m	200nØ	12	500uØ	41 §				1.0p	G	
54	2N150A	65m		1.3m	Ø	32			5.0m	200nØ	12	500uØ	41 §				1.0p	G	
55#	2SC13	65m	3.5M△		ØJ	18		12	40m	13u	1.0Ø	24mØ	50 †				10p	A△	TO9
56	2N313	65m	5.0M	1.1m	#J	15			20m	.50uØ	5.0	1.0m	25				2.4p	G	
57	2N314	65m	8.0M	1.1m	#J	15			20m	.50uØ	5.0	1.0m	25				2.4p	G	
58#	2SC14	65m	15M	1.3m	ØJ	18	18 Ø	12	40m	9.0uØ	1.0Ø	24mØ	48 †				10p	A△	TO5
59	2N824†	70m	12.M	1.2m	#J	25	24	12	100m	5.0uØ	.25Ø	20mØ	40 †△				12p	FA	u9
60	2N817†	75m		1.2m	#S	30	15	25	400m	10uØ	1.0Ø	50mØ	20 †△				20pØ		u8 A
61	2N818†	75m		1.2m	#S	30	15	25	400m	10uØ	1.0Ø	50mØ	20 †△				20pØ		u9 B§
62	2N819†	75m		1.2m	#S	30	20	25	400m	10uØ	1.0Ø	50mØ	30 †△				20pØ		u8 A
63	2N820†	75m		1.2m	#S	30	20	25	400m	10uØ	1.0Ø	50mØ	30 †△				20pØ		u9 B§
64	2N821†	75m		1.2m	#S	30	25	25	400m	10uØ	1.0Ø	50mØ	40 †△				20pØ		u8 A
65	2N822†	75m		1.2m	#S	30	25	25	400m	10uØ	1.0Ø	50mØ	40 †△				20pØ		u9 B§
66#	TF71	75m	.40M	3.0m	*A	60			25m	200u	5.0	1.0mØ	24	10u	800	2.5		G	
67	CK261	75m	1.2M	1.3m	#J	35	12	20	100m	10uØ	6.0Ø	1.0m	54 △	36u	3.6k	7.0		FAØ	u8
68	CK262	75m	1.2M	1.3m	#J	35	12	20	100m	10uØ	6.0Ø	1.0m	54 △	36u	3.6k	7.0		FAØ	u9
69	2N823	75m	4.0M△	1.2m	#S	25	12	12	100m	5.0uØ	.25Ø	20mØ	40 †△				20pØ		u8 A
70	2N1288	75m	60.M		#J	15		5.0	50m	5.0u			100 †				3.0p	△	TO39
71	2N1289	75m	60.M	1.2m	#S	20		15	50m	70uØ	1.0Ø	10mØ	70 †				3.0p	△	TO39
72#	2SD44	80m		2.2m	ØJ	25		12	50m	14uØ	6.0	1.0m	85	30u	2.5k	5.0	25p	A	TO1
73#	2T63	80m		2.0m	*	25			50m	10uØ	6.0	1.0m	32					A	
74#	2T67	80m		2.0m	*	25			20m	10uØ	6.0	1.0m	13				30p	A	
75	SYL1326	80m			ØJ	20		20	200m	10u	.30Ø	200mØ	20 †				30p	A△	
76#	2T64	80m	1.0M	1.5m	ØJ	25			50m	15u	1.0Ø	10mØ	100 †	250nb	28	1.2	30p	A	
77#	2SD35	83m		1.6m	ØJ	20		10	60m	10uØ	1.0Ø	250u△	108 †Ø					A	R18
78#	2SD36	83m		1.6m	ØJ	20		10	60m	10uØ	1.0Ø	250u△	220 †Ø					A	R18
79	2N646	100m		1.7m	#S	25	25	12	50m	14u	1.5Ø	30m	50 †△				40p		TO40
80#	2T65	100m		2.0m	ØJ	25			50m	15u	6.0	1.0m	45				30p	A	
81#	2T66	100m		2.0m	ØJ	25			50m	15u	6.0	1.0m	25				30p	A	
82#	TF70	100m	.25M	2.5m	*A	60			25m	150u	5.0	1.0mØ	10	5.0u	400	1.0		G	
83#	ASY53	100m	500k△	2.0m	ØJ	20	10	15	250m	10uØ	0.0	5.0mØ	15 †△					A△	R47a
84	2N205	100m	.60M	1.5m	#	36		12	100m	4.0uØ	5.0	1.0m	25				40		
85#	2T69	100m	1.0M	2.0m	#J	25		10	100m	10u	1.0Ø	10mØ	50 †	250nb	28	1.2	30p	A	
86	2N204	100m	1.2M	1.5m	#	36		12	100m	4.0uØ	5.0	1.0m	80				40		
87	GT792	100m	4.8M	2.0m	#S	20			100m	6.0uØ	5.0	5.0m	37 †△					A	TO9
88	2N1779	100m	5.0M	1.2m	#	25		15	100m	10u	.75Ø	100m	40 †				15p	A	u1
89	2N1781	100m	6.0M	1.3m	#	25		12	100m	20u	.25Ø	20m	60 †				15p	△	u1
90#	ASY61	100m	6.0M	2.0m	ØJ	30	12	20	250m	10uØ	0.0	100mØ	40 †△					A△	R47a
91	2N1780	100m	8.0M	1.3m	#	25		15	100m	10u	.75Ø	100m	40 †				15p	A△	u1
92	2N1783	100m	8.0M	1.3m	#	30		20	100m	300u	60Ø	.10m	60				14p	A△	u1
93#	ASY72	100m	10M	2.0m	ØJ	20	6.0	15	250m	10uØ	4.5Ø	1.0mØ	60					A△	R47a
94	2N1685	100m	12.M	1.3m	#	25		15	100m	10u	.75Ø	100m	60 †				15p	A	u1
95#	2SC50	100m	12M	2.0m	ØJ	20		20	200m	3.0uØ	6.0Ø	1.0mØ	45					A	R9
96#	ASY62	100m	14M§	2.0m	ØJ	20	15	20	250m	10uØ	0.0	20mØ	50 †△					AØ△	R47a
97#	2SD25	110m	1.0M		ØJ	25	25 §	10	100m	14uØ	1.0Ø	50mØ	70 †					A	TO1
98#	2SD43A	110m	1.0M			45	45	12	150m	14uØ	1.0Ø	50mØ	70 †					A	TO1
99	2N28	120m	.50M		#A	30		20	80m	15u			32				17		
100#	2SD66	120m	800k		ØJ	25	20 §		100m	15u	1.0Ø	10mØ	25 †	250nb	28	1.2	35p	A	R14
101#	2SD61	120m	1.0M		ØJ	30	25 §	10	100m	10u	1.0Ø	10mØ	50 †	250nb	28	1.2	35p	AØ	R14
102#	2SD62	120m	1.0M		ØJ	30	25 §	10	100m	10u	1.0Ø	10mØ	50 †	250nb	28	1.2	35p	A△	R14
103#	2SD63	120m	1.0M		ØJ	25	20 §		100m	10u	1.0Ø	10mØ	50 †				35p	A	R14
104#	2SD64	120m	1.0M		ØJ	25	20 §		100m	15u	1.0Ø	10mØ	100 †	250nb	28	1.2	35p	A	R14
105#	2SD65	120m	1.0M		ØJ	25	20 §		100m	15u	1.0Ø	10mØ	50 †	250nb	28	1.2	35p	A	R14
106	2N29	120m	2.0M	2.0m	#J	35		20	100m	15u	4.5	1.0m	49	140nb	35	1.3	8.5p	G	
107#	2SC89†	120m	3.0M	2.0m	#J	15					.20	20m	20 △†				25p		TO5
108#	2SC179†	120m	3.0M	2.0m	#J	25		20	200m	25u	.20Ø	20m	20 △†				25p		TO1
109#	2SC180†	120m	5.0M	2.0m	#J	25		20	400m	25u	.30Ø	200m	20 △†				25p		TO1
110#	XA701	120m	5.0M		ØA	25		20	200m	8.0u	.20Ø	20mØ	40 †				17p	A△	RO7

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. GERMANIUM NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] MAX. COLL. DISS. @25°C (W)	[2] fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	SYL1454	120m	7.0M△		#J	25		15	200m	6.0u	.20Ø	20mØ	110 †					△			
2#	XA702	120m	7.0M		#A	25		20	400m	8.0u	.20Ø	20mØ	50 †				17p	A	RO7		
3#	2SC181†	120m	10.M	2.0m	#J	25		20	400m	25u	.30Ø	200m	20 △†				25p		TO1		
4#	XA703	120m	13.M		#A	25		20	400m	8.0u	.20Ø	20mØ	70 †				17p	A△	RO7		
5#	2SD31	125m		2.5m	ØJ	25		10	125m	15uØ	1.0Ø	2.0mΔ	50 †					AØ	TO1	A	
6#	2SD32	125m		2.5m	ØJ			10	125m	15uØ	1.0Ø	2.0mΔ	90 †					AØ	TO1	A	
7	GT1608	125m	4.5M	2.0m	#S						5.0Ø	1.0m					14p	A	TO9		
8	GT1609	125m	5.0MΔ	2.0m	#S						5.0Ø	1.0m					14p	A	TO9		
9#	2SC34†	140m	3.5M§Δ	2.7m	ØJ	20		20	250m	3.0uØ	0.0	200m	30 †					A	R9		
10#	2SC35†	140m	4.5M§Δ	2.7m	ØJ	20		20	400m	3.0uØ	0.0	200m	65 †					A	R9		
11#	2SC36†	140m	9.0M§Δ	2.7m	ØJ	20		20	400m	3.0uØ	0.0	200m	100 †					A	R9		
12#	2SC405†	150m		2.0m	#J	25		15	200m	10u	1.0Ø	100mØ	60 †					A	R107a	A	
13#	2SC406†	150m		2.0m	#J	25		15	200m	10u	1.0Ø	100mØ	120 †					A	R107a	A	
14#	2SD19	150m			#J	25		10	300m	12uØ	1.0Ø	20mØ	31 †					A	TO5		
15#	2SD20	150m			#J	25		10	300m	12uØ	1.0Ø	20mØ	50 †					A	TO5		
16#	2SD21	150m			#J	25		10	300m	12uØ	1.0Ø	20mØ	72 †					A	TO5		
17#	2SD22	150m			#J	25		10	300m	12uØ	1.0Ø	20mØ	97 †					A	TO5		
18#	2SD23	150m			#J	25		10	300m	12uØ	1.0Ø	20mØ	150 †					A	TO5		
19	GT229	150m		2.0m	#S	12			200m	20u	5.0Ø	1.0m	20	500nb	30			A	TO5		
20#	NKT774	150m		2.5m	#J	15	15 Ø	5.0	300m	15uØ	1.5	200m	25 †Δ						TO1		
21	SYL1380†	150m			ØJ	25			200m	32u								A	u1		
22	SYL1468	150m			#J	25		15	200m	10u	.75Ø	200mØ	60 †					△			
23	SYL1591	150m			ØJ			10	200m		.40Ø	1.0mΔ	25 †				30p	A△			
24	SYL1617	150m			#J	15		10		5.0u	.50Ø	1.0mΔ	110 †					A△			
25	SYL1750	150m			#J	40			100m		6.0Ø	1.0mØ	70		2.4k			A			
26	JAN2N2426	150m	25k†	2.0m	#J	40	25 §	10	100m	20u	6.0Ø	1.0mØ	125 ☑	50u☑	3.2		40p☑		TO5		
27	GT949	150m	700kΔ	2.0m	#S	30			200m	25u	3.5Ø	1.0mΔ	30	500nb			16p	A△	TO5		
28	2N35/5	150m	800k	2.5m	ØJ	40			100m	50u	6.0Ø	1.0mØ	75	30u	2.5k	6.0		A	TO5		
29#	NKT751	150m	1.5M	2.5m	#J	15	15 Ø	10	200m	50u	1.5Ø	50mØ	30 †Δ					A	R65		
30#	NKT752	150m	1.5M	2.5m	#J	15	15 Ø	10	100m	50u	4.5Ø	1.0mØ	30 †Δ					A	R65		
31#	AF192	150m	2.0MΔ			20			100m									A	TO18		
32#	NKT701	150m	2.0M	2.5m	#J	25			100m			1.0mØ	100					A	R65		
33#	NKT703	150m	2.0M	2.5m	#J	25	25 Ø	15	200m	50u	1.5Ø	50mØ	50 †Δ					A	R65		
34#	NKT717	150m	2.0M	2.7m	ØJ	45	45 §	10	150m	15uØ	1.5Ø	50mØ	40 †Δ						TO1	A	
35#	2SD11	150m	2.5M	2.5m	ØJ	25		15	300m	10u	1.0Ø	20mØ	70 †					A	TO5		
36	204A	150m	2.5M		ØS	60			50m				29								
37#	2SD104	150m	2.8M	3.0m	ØJ	20		6.0	400m		.50Ø	100mØ	60 †Δ					A	TO1	A	
38#	2SD105	150m	2.8M	3.0m	ØJ	20		6.0	400m		.50Ø	100mØ	35 †Δ					A	TO1	A	
39#	2SD75	150m	4.0M	2.5m	#J	25	25 Ø	12	100m	14u	6.0Ø	1.0m	40	15.u	1.2k	3.0		A	TO1		
40#	2SD75A	150m	4.0M	2.5m	#J	45	45 Ø	12	100m	25u	6.0Ø	1.0m	40	15.u	1.2k	3.0		A	TO1		
41	GT904	150m	4.0M	2.0m	#S	20			200m	25u	.20Ø	1.0mΔ	30 †	500nb			16p	A	TO5		
42	GT948	150m	4.0MΔ	2.0m	#S	20		5.0	200m	20u	3.5Ø	1.0mΔ	30 †	500nb				A△	TO5		
43#	2G339A	150m	5.0M§	2.3m	#J	10		3.0	300m	10u	1.0	50m	150				8.0p	A	TO5		
44	GT167	150m	5.0MΔ	2.0m	#S	25		15		25u	1.0Ø	8.0m	25 †	500nb	28	3.0	16p	A	TO5		
45#	SFT184	150m	5.0M§Δ	2.5m	#J	15	15		100m	5.0u	6.0Ø	1.0mØ	60 Δ				20p	A	TO5		
46#	SFT259	150m	5.0M§	2.5m	#J	20	15	20	250m	5.0u	0.0	50mØ	20 †Δ					A	TO5		
47#	TK33C	150m	5.0M	3.0m	ØJ	30	12	20			4.5Ø	1.0mØ	40					A△	R47a		
48#	SFT260	150m	9.0M§	2.5m	#J	20	15	20	250m	5.0u	0.0	50mØ	25 †Δ					A△	TO5		
49#	2SC71	150m	10M	4.0m	ØJ	18	18 Ø	12	200m	7.0uØ	.50Ø	100mØ	100 †				14p	A	TO5		
50	SYL1327	150m	10.MΔ		#J	25		15	200m	10u	1.0Ø	50mØ	40 †				15p	△			
51#	SFT261	150m	13.M§	2.5m	#J	20	15	20	250m	5.0u	0.0	50mØ	30 †Δ					A	TO5		
52#	2SC72	150m	14M	4.0m	ØJ	18	18 Ø	12	200m	7.0uØ	.50Ø	100mØ	100 †				14p	A	TO5		
53#	SFT298†	150m	15.M	2.5m	#J	30		20	500m	10u	.45Ø	350mØ	35 †Δ				25p☑	A	TO5		A§
54	2N2426	150m	25M§Δ	2.5m	#S	40	25 §	20	200m	20u	6.0Ø	1.0mØ	35 Δ	50u☑	3.2k☑		40p☑		TO5		
55	2N2699†	150m	300M§Δ	2.0m	#J	15	8.0	4.0	100m	3.0uØ	.30Ø	10mØ	40 Δ				3.5p☑		TO18	A	
56	2N955†	150m	1.0G§	1.3m	#J	12	11	2.0	100m	5.0uØ	.50	30mØ	60 †				4.0p	ME	TO18		
57	2N955A†	150m	1.0G§	2.0m	#J	12		2.0	150m	5.0u	.50Ø	30mØ	50 †				6p☑	ME	TO18		
58	2N647/22	180m		3.0m	#J	25	25	12	50m	14u	1.0Ø	50mØ	70 †					A	TO22		
59	2N649/22	180m		3.0m	#J	20	18	2.5	50m	14uØ	1.0Ø	50mØ	65 †					A	TO22		
60	2N1102/5	180m	150k	3.5m	ØJ	40			100m	50u	1.5	35mØ	40					A	TO5		
61#	2T85	200m	1.0M	4.0m	*J	25			200m	15u	1.0	20m	57 †	270nb	28	1.1	60p	A			
62#	NKT753	200m	1.0M	3.0m		10		5.0	300m	40u	1.5	200m	90 †					A			
63#	ASY86†	200m*	2.0M§	5.0m	#J	16	12	12	500m	100u	0.0	10mØ	120 †☑				100p☑	A	TO1		
64#	ASY88†	200m*	2.0M§	5.0m	#J	26	16	12	500m	100u	0.0	10mØ	120 †☑				100p☑	A	TO1		
65#	AC157†	200m*	2.5M§	4.0m	#J	26	16	6.0	500m	100u	1.0Ø	125mØ	80 †				100p☑	A	TO1		
66#	AC168†	200m*	2.5M§	4.0m	#J	32	20	6.0	500m	100u	1.0Ø	125mØ	80 †				100p☑	A	TO1		
67#	ASY87†	200m*	4.0M§	5.0m	#J	16	12	12	500m	100u	0.0	10mØ	295 †☑				100p☑	A	TO1		
68#	ASY89†	200m*	4.0M§	5.0m	#J	26	16	12	500m	100u	0.0	10mØ	295 †☑				100p☑	A	TO1		
69#	AC186	215m		3.3m	#J	30	18 *	10	700m	35uØ	2.0Ø	150mØ	60 †Δ#					A	R48a	A	
70#	AC141H	220m	3.0M	3.3m	#J	50		10	1.2	14uØ		400m	80 †					A	TO1		
71#	2SD100	250m			#J	32	32 §	12	400m		1.0Ø	150mØ	75 †					A	RO10		
72#	2SD101	250m		5.0m	ØJ	80	80 §	6.0	600m	50uØ	1.0Ø	150mØ	70 †					A	R93		
73#	2SD127	250m			#J	23	20 §		500m	20uØ	1.0Ø	20mØ	82 †					A	TO1		
74#	2SD127A	250m			#J	23	20 §		500m	20uØ	1.0Ø	500mØ	46 †#△					A	TO1		
75#	2SD128	250m			#J	32	30 §		500m	20uØ	1.0Ø	20mØ	82 †					A	TO1		
76#	2SD193	250m			ØJ	35		12	400m	500u	1.0Ø	150mØ	100 †					A	TO9		
77#	2SD100A	250m	1.5M			45	45 §	12	400m	40uØ	1.0Ø	150mØ	75 †					A	R10		
78	2N1173	250m	6.0M	3.3m	#J	35		35	200m	10uØ	10Ø	500uØ	80	190nb	56	7.0	20p	AØ	TO29		
79#	AC141H-K	260m	3.0M	4.0m	#J	50		10	1.2	14uØ		400m	80 †					A	TO1		
80	2N1585	300m	400M	4.0m	#J	25		2.0	100m	100u	10Ø	10mØ	20 †				1.8p	ME	TO5		
81	2N2568	1.0 Ø	596M§Δ	13m	#S	32	15	1.0	100m	5.0u§♦	5.0Ø	40mØ	10 †Δ				3.0p☑		MT54	G	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	MF3304†		700M§△			18	12	5.0		.01u#Ø	1.0	50mØ	20 †△				2.5pØ		TO72
2	CK790	2.0m	.40M		$A	45			50m	.20uØ			14				30		
3	CK793	2.0m	.50M		$A	30			50m	.20uØ			16				30		
4	CK791	2.0m	.60M		$A	30			50m	.20uØ			24				30		
5	CK721	4.0m			ØA	15			10m		10Ø	5.0m	50 †						
6	CK722	4.0m			ØA	22			10m		10Ø	4.0m	30 †						
7	CK725	4.0m			ØA	12			10m		10Ø	6.3m	300 †						
8	CK727	4.0m			ØA	6.0			10m		1.5	500u	25 †△						
9#	BFZ10	50m§	3.5M§		§J	15			10m				30					AD	
10	2N1264/13	50m	300M	1.0mØ	J	20		.10	10m	50uØ	9.0Ø	1.0m	25				4.0p	D	TO13	
11#	FSP270-1	75m	150M§		♦J	20	15	4.0		25nØ	1.0Ø	10mØ	75 †				10pØ	PE△	u14	E
12#	2SA525	75m	250M§	1.2m	#J	20	18 Ø	.20	5.0m	10uØ	6.0Ø	1.0m	20				1.0p	PE	TO17	
13#	BCZ13	85m#	500k§△	833u	$J	20	20	20	10m	10nØ	2.0	1.0m	25				40pØ	A	R19	
14#	BCZ14	85m#	500k§△	833u	$J	20	20	20	10m	10nØ	2.0	1.0m	55				40pØ	A	R19	
15	SNT204	100m		769u	$J	6.0	6.0	2.0		.20uØ	2.5Ø	.50mØ	50 △		40 Ø			PL	u17	
16	2N1135	100m	5.6M§△	870u	$S	12	12	12	50m	300nØ							12pØ	△	TO5	A
17	2N1135A	100m	5.6M§△	870u	$S	12	12	12	50m	300nØ							12pØ	△	TO5	A
18	3N112Ø	100m	6.0M§△	1.0m	§S	50			20m	10nØ							10pØ	△	L38	
19	2N1606	100m	7.2M§△	870u	$S	10	10	10	50m	100n	.50Ø	15mØ	6.0 †△						TO5	A
20	2N1607	100m	10M§△	870u	$S	10	10	10	50m	100n	.50Ø	15mØ	6.0 †△						TO5	A
21	3N113Ø	100m	12M§△	1.0m	§S	50			20m	10nØ							10pØ	△	L38	
22	2N1428	100m	18M*△	870u	$J	6.0	6.0		50m	100n	3.0	1.0mØ	25 △	5.0uØb	70 Ø		14pØ	SA	TO1	A
23	2N1608	100m	25M§△	870u	$S	10	10	10	50m	100n	.50Ø	15mØ	6.0 †△						TO5	A
24#	BFS69	100m	50M§△	1.0m	♦J	30	25 *	5.0	100m	10u	5.0Ø	100uØ	100 †△					PE†	u30b	D
25	TNT1132	100m	50M§△	666u	§J	50	35 Ø	5.0		1.0uØ	10Ø	150mØ	30 †#△				45pØ	ME	u17	
26	TNT1131	100m	60M§△	666u	§J	50	35 Ø	5.0		1.0uØ	10Ø	150mØ	20 †#△				45pØ	ME	u17	
27	2N1132/TNT	100m	96M△	4.0m	$J	50	35	5.0		1.0u	10Ø	500uØ	30 †#△	1.0uØb	35 Ø	8.0pØ	45pØ	D	u17	
28	2N2303/TNT	100m	96.M△	556u		50	35	5.0		1.0uØ	10Ø	150mØ	75 †#△				45pØ	D	u17	
29	2N2904/TNT	100m	96.M△	556u		50	35	5.0		1.0uØ	10Ø	150mØ	75 †#△				45pØ	D	u17	
30#	SA495	150m			$J	25	25 Ø		50m	1.0u	6.0Ø	1.0mØ	9.0 △	2.5ub	90		12pØ	AΔ	TO1	
31#	SA495A	150m			$S	25	25 Ø		50m	1.0u	6.0Ø	1.0m	15 △	2.5ub	90		12pØ	AΔ	TO1	
32#	SA496	150m			$J	10	10		50m	100n	.50Ø	15mØ	6.0 †△	4.0ub	100		12pØ	AΔ	TO1	
33#	SA496A	150m			$J	10	10		50m	100n	.50Ø	15mØ	6.0 †△	4.0ub	100		12pØ	AΔ	TO1	
34#	SA496B	150m			$J	10	10		50m	100n	6.0Ø	1.0mØ	10 △	4.0ub	100		12pØ	AΔ	TO1	
35	SA537	150m			$J	25	20		50m	100nØ	.50Ø	5.0mØ	10 †△				9.0pØ		TO1	
36	SA538	150m			$J	10	6.0		50m	100nØ	.50Ø	5.0mØ	10 †△				9.0pØ		TO1	
37#	SAC42BØ	150m			$J	25	25	25	50m	.05uØ							15pØ	A	TO1	
38	NS665	150m	1.0M§△	833u	§J	30	15	30		1.0uØ	6.0Ø	1.0m	50 △					DE	TO18	AØ
39	NS666	150m	1.0M§△	833u	§J	40	35	35		1.0uØ	6.0Ø	1.0m	24 △					DE	TO18	AØ
40	NS667	150m	1.0M§△	833u	§J	50	35	35		1.0uØ	6.0Ø	1.0m	15 △					DE	TO18	AØ
41	NS668	150m	1.0M§△	833u	§J	50	50	40		1.0uØ	6.0Ø	1.0m	7.0 △					DE	TO18	AØ
42#	S520	150m	1.0M	3.0m	$J	30			100m	.05uØ										
43	JAN2N1026A	150m	2.0M△	1.2m	$J	35	35	35	100m	25n	6.0	1.0m	36	1.4ub	35		7.0p	A		
44	NS6211Ø	150m	3.0M§△	1.1m	$A	30	25	25		5.0nØ	.50Ø	1.0mØ	30 †△				10pØ		X16	
45#	SA50	150m	4.0M§△		$S		20		50m	50nØ	3.0Ø	1.0m	45 △	b	90			A	TO1	
46#	SA51	150m	4.0M§△		$S		30		50m	100u	3.0Ø	1.0m	10 △	b	90			A	TO1	
47#	SA52	150m	4.0M§△		$S	30	30 Ø	30	50m	50uØ	3.0Ø	1.0mØ	20 †△				12pØ	A	TO1	
48#	SA52A	150m	4.0M§△		$S	30	30 Ø	30	50m	50u	3.0Ø	1.0mØ	45 †△				12pØ	A	TO1	
49#	SA52B	150m	4.0M§△		$S	30	30 Ø	30	50m	20uØ	3.0Ø	1.0mØ	20 †△				12pØ	A	TO1	
50#	SA70†	150m	4.0M§△		$J		40		50m	100u	3.0Ø	1.0m	20 △	b	90			AΔ	TO1	
51#	SAC44Ø	150m	4.0M§△		$S	5.0		5.0	50m	.05uØ	3.0Ø	1.0mØ	1.0 △					A	TO1	
52#	SSA43Ø	150m	4.0M§△		$S	20	10	20	50m	10nØ	3.0Ø	1.0m	10 †△					A	TO1	
53#	SSA43AØ	150m	4.0M§△		$J	20	10	20	50m	.01u	3.0Ø	1.0m	10 †△					A	TO1	
54#	SSA46Ø	150m	4.0M§△		$J	20	10	20	50m	.02uØ	3.0Ø	1.0m	7.0 †△					A	TO1	
55#	SSA48Ø	150m	4.0M§△		$S	20	10	20	50m	.05uØ	3.0Ø	1.0m	7.0 †△					A	TO1	
56	2N2183Ø	150m	6.0M§△	1.3m	$S	15	10	15	50m	.01uØ	.50Ø	5.0mØ	10 †△				12pØ		TO1	
57	2N2184Ø	150m	6.0M§△	1.3m	$S	15	10	15	50m	.01uØ	.50Ø	5.0mØ	10 †△				12pØ		TO1	
58	JAN2N496†	150m	7.2M§△		$S	10	10 Ø	5.0		100n	.50Ø	15mØ	6.0 △				12pØ		TO1	
59	JAN2N495	150m	8.0M△	1.0m	$S	25	25 #	10		1.0u	6.0	1.0m	9.0 △	2.5uØb	90 Ø		12pØ		TO1	
60	2N495/18	150m	8.0M*△	1.2m	$S	25	25 #	10	50m	1.0u	6.0	1.0m	15 △	35uØb	90 Ø	3.5 Ø	12pØ	S	TO18	
61#	SA53	150m	10M§△		$J		20		50m	50nØ	3.0Ø	1.0m	20 △	b	90			A	TO1	
62#	SA54	150m	10M§△		$J		15		50m	100u	3.0Ø	1.0m	20 △	b	90			A	TO1	
63#	SA55	150m	10M§△		$J		10		50m	100u	3.0Ø	1.0m	25 △	b	90			A	TO1	
64#	SA56	150m	10M§△		$J		5.0		50m	100u	3.0Ø	1.0m	10 △	b	90			A	TO1	
65#	SAC40Ø	150m	10M§△		$S		15	15	50m	.05uØ	3.0Ø	1.0mØ	2.5 △					A	TO1	
66#	SAC40AØ	150m	10M§△		$J		15	15	50m	.05uØ	3.0Ø	1.0mØ	1.5 △					A	TO1	
67#	SAC40BØ	150m	10M§△		$J		15	15	50m	.05uØ	3.0Ø	1.0mØ	1.5 △					A	TO1	
68#	SAC42Ø	150m	10M§△		$S	25	25	25	50m	.05uØ	3.0Ø	1.0mØ	2.5 △					A	TO1	
69#	SAC42AØ	150m	10M§△		$J	25	25	25	50m	.05uØ	3.0Ø	1.0mØ	1.5 △					A	TO1	
70	2N354	150m	15M*	1.2m	$J	25	25		50m	100nØ	6.0	1.0m	18	2.0ub	50 *		7.0p	SA	TO24	F
71#	S500	150m	15.M	3.0m	$J	25			50m	.00uØ	6.0	1.0mØ	18				7.0p	A		
72#	S501	150m	25.M	3.0m	$J	10			50m	.00u	6.0	1.0mØ	18				7.0p	A		
73	2N496/18†	150m	28.M§△	1.3m	$S	10	10 #	10	50m	.10u	.50Ø	15mØ	15 †△				12pØ	S	TO18	
74#	2SA542	150m	30M§△		$J	30	25	5.0	50m	50n	10Ø	500uØ	160 †				8.0pØ	PE	u23a	C
75	NS6201	150m	30M§△	1.2m	$	35	35	5.0		10nØ	5.0Ø	100uØ	100 †△				6.0pØ	PLØ	X16	
76	TMT1132	150m	50M§△	1.0m	§J	50	35 Ø	5.0		1.0uØ	10Ø	150mØ	30 †#△				45pØ	ME	TO51	
77	NS6062	150m	60.M§	1.2m	$J		10	4.0	100m	.01uØ	3.0Ø	.10mØ	45 △				5.0p	PLØ	X16	
78	NS6063	150m	60.M§	1.2m	$J		10	4.0	100m	.01uØ	3.0Ø	.10mØ	70 △				5.0p	PLØ	X16	
79	NS6064	150m	60.M§	1.2m	$J		10	4.0	100m	.01uØ	3.0Ø	.10mØ	115 △				5.0p	PLØ	X16	
80	NS6065	150m	60.M§	1.2m	$J		10	4.0	100m	.01uØ	3.0Ø	.10mØ	180 △				5.0p	PLØ	X16	
81	TMT1131	150m	60M§△	1.0m	§J	50	35 Ø	5.0		1.0uØ	10Ø	150mØ	20 †#△				45pØ	ME	TO51	
82	2N1132/TPT	150m	96M△	833u		50	35	5.0		1.0u	10Ø	500uØ	30 †#△	1.0uØb	35 Ø	8.0 Ø	45pØ	D	X31	
83	2N2303/51	150m	96.M△	833u		50	35	5.0		1.0uØ	10Ø	150mØ	75 †#△				45pØ	D	TO51	
84	2N2303/TPT	150m	96.M△	833u		50	35	5.0		1.0uØ	10Ø	150mØ	75 †#△				45pØ	D	X31	
85#	2SA629	150m	100M§	1.5m	♦J	30	25	4.0	30m	1.0uØ	6.0Ø	1.0mØ	200 †					PEØ†	TO92	D
86#	C6	150m	100M§	1.5m	♦J	50	45	5.0	30m	50nØ	3.0Ø	500uØ	200 †△					E		
87#	C7	150m	100M§	1.5m	♦J	50	45	5.0	30m	50nØ	3.0Ø	500uØ	300 †△					E		
88#	C8	150m	100M§	1.5m	♦J	50	45	5.0	30m	50nØ	3.0Ø	500uØ	450 †△					E		
89	MCS2137	150m	100M§△	1.5m	♦J	60	60	5.0	50m	.02uØ	5.0Ø	1.0mØ	100 △	60uØ	15 Ø	25 Ø	3.0p	EAΔØ	X38	
90	MCS2138	150m	100M§△	1.5m	♦J	60	60	5.0	50m	.02uØ	5.0Ø	1.0mØ	300 △	60uØ	40 Ø	25 Ø	3.0p	EAΔØ	X38	
91#	2SA480	150m	140M§		§J	30	20	5.0	100m	3.0uØ	3.0Ø	1.0mØ	60 †				5.0pØ	PE	TO18	Ø
92#	BC196VI	150m*	150M§	625u	♦J	30	25 *	5.0	100m	10u	5.0Ø	2.0mØ	75 △				4.0p	PE†	u47a	D
93#	BCW61A†	150m*	180M§	1.2m	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	200	18	2.7k	1.5	6.0p$Ø	PEØ	u56a	A
94#	BCW61B†	150m*	180M§	1.2m	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	260	24	3.6	2.0	6.0p$Ø	PEØ	u56a	A
95#	BCW61C†	150m*	180M§	1.2m	§J		32	5.0	100m	20u§	5.0Ø	2.0mØ	330	30	4.5	2.0	6.0p$Ø	PEØ	u56a	A
96#	BCW61D†	150m*	180M§	1.2m	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	520	50	7.5	3.0	6.0p$Ø	PEØ	u56a	A
97#	L3	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	60 †△				5.5pØ	E	u56b	A
98#	M4	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	90 †△					E		
99#	M5	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	135 †△					E		
100#	M6	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	200 †△					E		
101#	M7	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	300 †△					E		
102	2N2904/TPT	150m	200M§△	3.4m	♥S	60	40	5.0	600m	10u	10Ø	150mØ	40 †△				8pØ	E	X31	
103#	BC196A	150m*	200M§	625u	♦J	30	25 *	5.0	100m	10u	5.0Ø	2.0mØ	125 △				4.0p	PE†	u47a	D
104#	BFS32P	150m	200M	1.2m	$	45	45	5.0	200m	20n	10Ø	50mØ	30 †△				10p	PEØ	u17c	E
105#	BFS33P	150m	200M	1.2m	$	45	45	5.0	200m	20n	10Ø	2.0mØ	60 †△				10p	PEØ	u17c	E
106#	BFS34P	150m	200M	1.2m	$	45	30	5.0	200m	20n	10Ø	2.0mØ	100 †△				10p	PEØ	u17c	E
107	NS6205	150m	200M§△	1.2m	$A	30	30	5.0		20nØ	10Ø	10mØ	100 †△				8.0pØ	DE	X16	
108#	S2	150m	200M§	1.5m	♦J	60	45	5.0	200m	100nØ	1.0Ø	50mØ	50 †△					E		
109#	S3	150m	200M§	1.5m	♦J	60	45	5.0	200m	100nØ	1.0Ø	50mØ	75 †△					E		
110#	S4	150m	200M§	1.5m	♦J	60	45	5.0	200m	100nØ	1.0Ø	50mØ	100 †△					E		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T MAX	E MAP	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#LEAD	CODE
1#	BC196B	150m*	250M§	625u	♦J	30	25 *	5.0	100m	10u	5.0Ø	2.0mØ	240 Δ				4.0p	PE†	u47a	D	
2	2N4411	150m	400M§Δ	833u	§J	15	12	5.0	25m	5.0n#	.50Ø	500u	40 †Δ				700f§Ø	E	TO72	G	
3#	BSV55AP†	150m	400M	1.2m	$						.50Ø	30mØ	30 †Δ				6.0p		u17c	E	
4#	BSV55P†	150m	400M	1.2m	$						.50Ø	30mØ	40 †Δ				6.0p		u17c	E	
5	FK3962	175m	40M§Δ	1.0m	§J	60	60	6.0		10n§Ø	5.0Ø	10mØ	280 †#	19u	8.0k	10 Ø	6.0pØ	DPLØ	u17a		
6	FV3962	175m	40M§Δ	1.0m	§J	60	60	6.0		10n§Ø	5.0Ø	10mØ	280 †#	19u	8.0k	10 Ø	6.0pØ	DPLØ	u5a		
7	FK3964	175m	50M§Δ	1.0m	§J	45	45	6.0		10n§Ø	5.0Ø	10mØ	330 †#	25u	10k	10 Ø	6.0pØ	DPLØ	u17a		
8	FV3964	175m	50M§Δ	1.0m	§J	45	45	6.0		10n§Ø	5.0Ø	10mØ	330 †#	25u	10k	10 Ø	6.0pØ	DPLØ	u5a		
9	FK3502†	175m	150M§Δ	1.0m	§J	45	45	5.0	500m	10n§Ø	10Ø	10mØ	270 †#				8.0pØ	DPE	u17b		
10	FK3503†	175m	150M§Δ	1.0m	§J	60	60	5.0	500m	10n§Ø	10Ø	10mØ	270 †#				8.0pØ	DPE	u17b		
11	FV3502†	175m	150M§Δ	1.0m	§J	45	45	5.0	500m	10n§Ø	10Ø	10mØ	270 †#				8.0pØ	DPE	u5b		
12	FV3503†	175m	150M§Δ	1.0m	§J	60	60	5.0	500m	10n§Ø	10Ø	10mØ	270 †#				8.0pØ	DPE	u5b		
13	FK2894†	175m	350M§Δ	1.0m	§J	12	12	4.0		10u†Ø	.50Ø	30mØ	75 †#				6.0pØ	DPE	u17b	E	
14	FV2894†	175m	350M§Δ	1.0m	§J	12	12	4.0		10u†Ø	.50Ø	30mØ	75 †#				6.0pØ	DPE	u5b	A	
15#	BC250	200m		2.0m	♦J	20	20	5.0	100m	100nØ	1.0Ø	1.0mØ	35 †Δ					PEØ	X64	A	
16#	V655	200m		2.0m	♦	35	35	5.0		50n	5.0Ø	10mØ	135 †	15u	5.2k	1.8	4.0p	PL	TO106	A	
17#	OC430	200m*	.60M	1.9m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	15	20u	900	4.0	30pØ	AØ	R41		
18#	OC430K	200m*	.60M	2.4m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	15	20u	900	4.0	30pØ	AØ	R43		
19#	OC440	200m*	.60M	1.9m	§J	30	30	10	50m	.40uØ	5.0Ø	1.0m	15	20u	900	4.0	30pØ	AØ	R41		
20#	OC445	200m*	.60M	1.9m	§J	50	50	10	50m	.40uØ	5.0Ø	1.0m	15	20u	900	4.0	30pØ	AØ	R41		
21#	OC450	200m*	.80M	1.9m	§J	75	75	10	50m	.40uØ	5.0Ø	1.0m	15	20u	1.1k	4.0	30pØ	AØ	R41		
22#	OC443	200m*	1.0M	1.9m	§J	25	25	20	50m	.10uØ	5.0Ø	1.0m	25	25u	1.3k	5.0	30pØ	A	R41		
23#	OC449	200m*	1.0M	1.9m	§J	60	60	30	50m	.50uØ	5.0Ø	1.0m	25	25u	1.3k	6.0	30pØ	AØ	R41		
24#	OC465	200m*	1.0M	1.9m	§J	20	20	10	50m	.40uØ	5.0Ø	1.0m	25	25u	1.3k	5.0	30pØ	AØ	R41		
25#	OC469	200m*	1.0M	1.9m	§J	32	32	10	50m	.40uØ	2.0Ø	20mØ	20 †				30pØ	A	R41		
26#	OC460	200m*	1.2M	1.9m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	30	25u	1.5k	6.0	30pØ	AØ	R41		
27#	OC466	200m*	1.2M	1.9m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	30	25u	1.5k	5.0	30pØ	AØ	R41		
28#	OC470	200m*	1.2M	1.9m	§J	30	30	10	50m	.40uØ	5.0Ø	1.0m	30	25u	1.7k	6.0	30pØ	AØ	R41		
29#	OC467	200m*	1.5M	1.9m	§J	25	25	20	50m	.10uØ	5.0Ø	1.0m	30	25u	1.5k	7.0	30pØ	A	R41		
30	2N260	200m	1.8M	1.5m	$	10			50m	1nØ	6.0	1.0mØ	16				21p	A			
31	2N260A	200m	1.8M	1.5m	$	30			50m	1nØ	6.0	1.0mØ	16				21p	A			
32	2N261	200m	1.8M	1.5m	$	75			50m	1nØ	6.0	1.0mØ	10				21p	A			
33#	OC468	200m*	2.5M	1.9m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	60	40u	2.5k	7.0	30pØ	AØ	R41		
34	2N262	200m	6.0M	1.5m	$	10			50m	1nØ	6.0	1.0mØ	20				21p	A			
35	2N262A	200m	6.0M	1.5m	$	30			50m	1nØ	6.0	1.0mØ	20				21p	A			
36#	2SA494GR	200m	10M§Δ	2.0m	♦J	35	30	5.0	30m	500nØ	6.0Ø	100u	220	2.8u	14k	1.0		PEØ	R67a	B	
37#	2SA494O	200m	10M§Δ	2.0m	♦J	35	30	5.0	30m	500nØ	6.0Ø	100u	90	1.1u	8.0k	900m		PEØ	R67a	B	
38#	2SA494Y	200m	10M§Δ	2.0m	♦J	35	30	5.0	30m	500nØ	6.0Ø	100u	140	1.6u	11k	950m		PEØ	R67a	B	
39#	AT450Ø	200m	20MΔ§	1.6m	§J	30	30	5.0	50m	20nØ	10Ø	1.0mØ	60 †Δ				6.0pØ	PE	MM12a	D	
40#	AT451	200m	20MΔ§	1.6m	§J	30	30	5.0	50m	20n	10Ø	100uØ	200 Δ				6.0pØ	PE	MM12a	D	
41#	AT452	200m	20MΔ§	1.6m		45	45	5.0	50m	20n	10Ø	100uØ	60 Δ				6.0pØ	PE	MM12a	D	
42#	AT453	200m	20MΔ§	1.6m	§J	45	45	5.0	50u	20n	10Ø	100uØ	200 Δ				6.0pØ	PE	MM12a	D	
43#	2SA567	200m	100M§			30		4.0	100m	500n	6.0Ø	1.0mØ	300	25u	10k	4.0			TO1		
44#	2SA568	200m	120M§	2.0m	♦J	35	30	4.0	300m	1.0uØ	2.0Ø	150mØ	100 †#				10p	PE†	TO92	D	
45#	2SA569	200m	120M§	2.0m	♦J	50	45	4.0	300m	1.0uØ	2.0Ø	150mØ	100 †#				10p	PE†	TO92	D	
46#	2SA570	200m	120M§	2.0m	♦J	65	60	4.0	300m	1.0uØ	2.0Ø	150mØ	100 †#				10p	PE†	TO92	D	
47	DZ9A4	200m	340M§	2.6m	#J	25	25	4.0		100nØ	4.5Ø	50mØ	90 †#Ø				8.0p$	PEØ	TO98	B	
48	DZ9A5	200m	340M§	2.6m	#J	25	25	4.0		100nØ	4.5Ø	50mØ	225 †#				8.0p$	PEØ	TO98	B	
49#	2SA548	200m	400M§			50	35	5.0	100m	1.0u	6.0Ø	1.0mØ	100				3.0p	PE			
50#	BSW81†	200m	400M§Δ	2.0m	♦J	12	12	4.0		80nØ	.50Ø	30mØ	70 †#				6.0pØ	PE†	X64	A	
51	2N4973	200m	800M§Δ	2.0m	♦S	20	15	3.0	30m	25nØ	1.0Ø	3.0mØ	20 †Δ				2.0p$	Ø	TO106	A	
52	RT2461	200m	1.0G§Δ	1.2m	§J	20	15	5.0		.01uØ	1.0Ø	3.0mØ	20 Δ				3pØ	PEØ	R38		
53	RT2463	200m	1.2G§Δ	1.2m	§J	15	10	5.0		.01uØ	6.0Ø	2.0mØ	20 Δ				.70pØ	PEØ	R38		
54	A758A	220m	130M§	2.0m	§J		25	5.0	100m		5.0Ø	2.0mØ	180 †					PL†	MM10	A	
55	A758B	220m	130M§	2.0m	§J		25	5.0	100m		5.0Ø	2.0mØ	290 †					PL†	MM10	A	
56	A759A	220m	130M§	2.0m	§J		20	5.0	100m		5.0Ø	2.0mØ	180 †					PLØ	MM10	A	
57	A759B	220m	130M§	2.0m	§J		20	5.0	100m		5.0Ø	2.0mØ	290 †					PLØ	MM10	A	
58	GT1644	225m	2.0M	1.8m	$S			12		10u	6.0Ø	1.0m	15	1.0ub	35	20		A	TO5		
59	A3T2906†	225m	200M§Δ	1.8m	$S	60	40	5.0	500m	20nØ	10Ø	1.0mØ	25 †Δ				12pØ	PE†	u44	A	
60	A3T2906A†	225m	200M§Δ	1.8m	$S	60	60	5.0	500m	10nØ	10Ø	1.0mØ	40 †Δ				12pØ	PE†	u44	A	
61	A3T2907†	225m	200M§Δ	1.8m	$S	60	40	5.0	500m	20nØ	10Ø	1.0mØ	50 †Δ				12pØ	PE†	u44	A	
62	A3T2907A†	225m	200M§Δ	1.8m	$S	60	60	5.0	500m	10nØ	10Ø	1.0mØ	100 †Δ				12pØ	PE†	u44	A	
63	A3T2894†	225m	400M§Δ	1.8m	$S	12	12	4.0	200m	2.0u†Ø	.50Ø	30mØ	30 †Δ#				6.0pØ	PE†	u44	A	
64#	BSW20†	235m*	130M§Δ	2.2m	§J	35	30	5.0	100m	100nØ	1.0Ø	10mØ	40 †Δ#				5.0p$Ø	PE	u69	F	
65#	OC480	240m		1.9m	§J	125	125		50m	2.0u	5.0Ø	1.0m	15	25u	1.1k	6.0	40p	A	R41		
66	2N2709	240m	.20MΔ	1.8m	$S	50	35	20	50m	1.0uØ	1.0Ø	.20mØ	10 †Δ	85u	3.0k		110pØ		TO5		
67#	OC463	240m	5.0M	1.9m	§J	10	10		50m	2.0u	5.0Ø	1.0m	30	100u	1.8k		25p	A	R41		
68	2N258	250m		2.0m	$S	30	30	22	50m	50u	6.0	1.0m	15 Δ	b	50		40p				
69	2N259	250m		2.0m	$S	30	30	22	50m	50u	6.0	1.0m	32 Δ	b	50		40p				
70#	BCY49	250m		2.0m	§J	15	15	15	20m	.10uØ	6.0Ø	1.0mØ	25 Δ					AΔ	TO5		
71	2N3586Ø	250m	.10M§Δ	1.4m	§S	45		45	100m	3.0uØ	6.0Ø	1.0mØ	1.0 Δ				18pØ		X37		
72	C101	250m	400k	1.8m	§A	30		30	50m	100n	.50Ø	100uΔ	9.0 †	b	35		50p	BΔ	TO5		
73	SL404	250m	500k		$S	40	35	25	50m	12u	.50	100m	10 †Δ	50u	3.0k		10pØ	DPE	u29		
74#	OC440K	250m*	.60M	2.4m	§J	30	30	10	50m	.40uØ	5.0Ø	1.0m	15	20u	900	4.0	30pØ	AØ	R43		
75#	OC445K	250m*	.60M	2.4m	§J	50	50	10	50m	.40uØ	5.0Ø	1.0m	15	20u	900	4.0	30pØ	AØ	R43		
76	C112	250m	700k	1.8m	§A	25		20	50m	1.0n	.50Ø	100uΔ	16 †	b	35		50p	BΔ			
77	C102	250m	800k	1.8m	§A	30		30	50m	100n	.50Ø	100uΔ	13 †	b	35		50p	BΔ	TO5		
78#	OC450K	250m*	.80M	2.4m	§J	75	75	10	50m	.40uØ	5.0Ø	1.0m	15	20u	1.1k	4.0	30pØ	AØ	R43		
79	C118	250m	1.0M	1.8m	§J	12	6.0	6.0	50m	1.0nØ	3.0Ø	10uØ	15 †		10k		50p	A	TO5		
80	C119	250m	1.0M	1.8m	§J	12	6.0	6.0	50m	1.0nØ	3.0Ø	10uØ	25 †		10k		50p	A	TO5		
81#	OC443K	250m*	1.0M	2.4m	§J	25	25	20	50m	.10uØ	5.0Ø	1.0m	25	25u	1.3k	5.0	30pØ	A	R43		
82#	OC449K	250m*	1.0M	2.4m	§J	60	60	30	50m	.50uØ	5.0Ø	1.0m	25	25u	1.3k	6.0	30pØ	AØ	R43		
83#	OC465K	250m*	1.0M	2.4m	§J	20	20	10	50m	.40uØ	5.0Ø	1.0m	25	25u	1.3k	5.0	30pØ	AØ	R43		
84#	OC469K	250m*	1.0M	2.4m	§J	32	32	10	50m	.40uØ	2.0Ø	20mØ	20 †				30pØ	A	R43		
85	C106*	250m	1.2M	1.8m	§J	30	10	30	50m	100n	6.0Ø	1.0mØ	50				50p		TO5		AØ
86#	OC460K	250m*	1.2M	2.4m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	30	25u	1.5k	6.0	30pØ	AØ	R43		
87#	OC466K	250m*	1.2M	2.4m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	30	25u	1.5k	5.0	30pØ	AØ	R43		
88#	OC470K	250m*	1.2M	2.4m	§J	30	30	10	50m	.40uØ	5.0Ø	1.0m	30	25u	1.7k	6.0	30pØ	AØ	R43		
89#	OC467K	250m*	1.5M	2.4m	§J	25	25	20	50m	.10uØ	5.0Ø	1.0m	30	25u	1.5k	7.0	30pØ	AØ	R43		
90#	OC468K	250m*	2.5M	2.4m	§J	10	10	10	50m	.40uØ	5.0Ø	1.0m	60	40u	2.5k	7.0	30pØ	AØ	R43		
91	2N4284	250m	7.0M§Δ	2.0m	$S	25	25	25	50m	100nØ	5.0	1.0m	600 Ø	1.2uØb	40 Ø	10	10pØ		u29		
92	SL200	250m	10.M§	2.0m	$S	25	25	25		.10uØ	5.0Ø	10mØ	50 †				10pØ	PE	u29		
93#	AT454	250m	40MΔ§	2.5m	♦J	30	30	5.0	50u	20n	10Ø	100uØ	60 Δ				6.0pØ	PE	MM12a	D	
94#	AT455	250m	40M§Δ	2.5m	♦J	45	45	5.0	50u	20n	10Ø	100uØ	60 Δ				6.0pØ	PE	MM12a	D	
95	MT1131	250m	80.M§	1.7m	§J	50		5.0		1.0u	10Ø	150mØ	35 †				35p	ME	u13		
96	MT1131A	250m	80M§	1.6m	§J	60		5.0		500n	10Ø	150mØ	20 †Δ	1.0ub	30	8.0	30p	PE	u13		
97	MT1132	250m	80.M§	1.7m	§J	50		5.0		1.0u	10Ø	150mØ	60 †				35p	ME	u13		
98	MT1132A	250m	80.M§	1.7m	§J	60		5.0		.50u	10Ø	150mØ	60 †				35p	ME	u13		
99	MT1132B	250m	80.M§	1.7m	§J	70		5.0		.01u	10Ø	150mØ	60 †				35p	PL	u13		
100	MT1420	250m	80.M	1.7m		60	30 §	5.0		1.0u	10Ø	150mØ	150				20p	P	u13		
101	MT1991	250m	80.M§	1.7m	§J	30		5.0		5.0u	10Ø	150mØ	15 †Δ				45p	PE	u13		
102	MT2303	250m	80.M§	1.7m	§J	50		5.0		1.0u	10Ø	150mØ	75 †Δ				45pØ	PE	u13		
103	MT1254	250m	100M§	1.7m	§J	30		5.0		.20u	1.0Ø	10mØ	35 †				10p	ME	u13		
104	MT1255	250m	100M§	1.7m	§J	30		5.0		.20u	1.0Ø	10mØ	60 †				10p	ME	u13		
105	MT1256	250m	100M§	1.7m	§J	40		5.0		.20u	1.0Ø	10mØ	35 †				10p	ME	u13		
106	MT1257	250m	100M§	1.7m	§J	40		5.0		.20u	1.0Ø	10mØ	60 †				10p	ME	u13		
107	MT1258	250m	100M§	1.7m	§J	30		5.0		.20u	1.0Ø	10mØ	110 †				10p	ME	u13		
108	MT1259	250m	100M§	1.7m	§J	50		5.0		.20u	1.0Ø	10mØ	65				10p	ME	u13		
109	USAF515ES045M†	250m	100M§Δ	1.4m	§J	40	25	5.0	100m	10nØ	10Ø	10mØ	30 Δ	1.0uØb	32 Ø	20 Ø	8.0pØ	PE*	X34		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	USAF515ES046M†	250m	100M§Δ	1.4m	§J	40	25	5.0	100m	10nØ	10Ø	10 Ø	30 Δ	1.0uØb	32 Ø	20 Ø	8.0pØ	PE*	X34	
2	MT869	250m	160M§	1.7m	§J	25		5.0		.01uØ	5.0Ø	10mØ	20 †Δ				9.0p	PE	u13	
3	MT995	250m	160M§	1.7m	§J	20		4.0		.00u	1.0Ø	20mØ	35 †Δ				10pØ	PE	u13	
4	MT726	250m	180M§	1.7m	§J	25		5.0	50m		1.0Ø	10mØ	15 †Δ				5.0p	PE	u13	
5#	2SA402	250m	200M§	60	§J	35	30		100m	1.0u	6.0Ø	2.0mØ	200 †				6.0p	PE	TO18	
6#	AT331	250m	200M§	2.5m	♦J	20	20	4.0	250m	.50u	2.0Ø	150m	35 #†Δ				25p	PL		
7#	AT332	250m	200M§	2.5m	♦J	60	50	4.0	500m	.50u	2.0Ø	150m	35 #†Δ				25p	PL		
8#	AT333	250m	200M§	2.5m	♦J	90	80	4.0	500m	.50u	2.0Ø	150m	35 #†Δ				25p	PL		
9	MD3133F*	250m	200M§Δ	1.4m	§J	50	35	4.0	600m	.05uØ	10Ø	150mØ	40 †#Δ				10pØ	AN△	TO89	
10	MD3134F*	250m	200M§Δ	1.4m	§J	50	35	4.0	600m	.05uØ	10Ø	150mØ	100 †#Δ				10pØ	AN△	TO89	
11	MT2411	250m	200M§	1.7m	§J	25		5.0	100m	.01u	.50Ø	10mØ	20 †Δ				3.7p	PE	u13	
12	MT2412	250m	200M§	1.7m	§J	25		5.0	100m	.01u	.50Ø	10mØ	40 †Δ				3.7p	PE	u13	
13#	BSS22†	250m	400M§Δ	2.5m	§S	12	12	4.0	200m	80n§	.50Ø	30mØ	30 †Δ				6.0pØ	PE†	X55c	A
14	ME8201†	250m	800M§	2.0m	§J	12	12	4.0	100m	.10u	.50Ø	15mØ	80				2.5p	PE	R97b	
15#	2S021	300m			§A	80		40			10Ø	10mØ	25 †					A		
16#	BC261	300m		2.0m	§J	45	45	5.0	100m	50n	5.0Ø	2.0mØ	125 Δ*					PEØ	R64b	AØ
17#	BC263	300m		2.0m	§J	20	20	5.0	100m	50n	5.0Ø	2.0mØ	125 Δ*					PEØ	R64b	AØ
18	NS1863	300m		1.7m	§J	30	30	20		1.0uØ	6.0Ø	1.0mØ	50 Δ					DE	TO46	AØ
19	NS1864	300m		1.7m	§J	50	50	35		1.0uØ	6.0Ø	1.0mØ	50 Ø					DE	TO46	
20	ST8709	300m		1.6m	§J	50	30	5.0		20nØ	5.0Ø	10mØ	80 †Δ				10p	PE	TO18	Ø
21#	2S3210	300m	.10M§Δ			40	40	20	100m			10mØ	10 †Δ					A	R51	
22#	2S3220	300m	.15M§Δ			40	40	20	100m			10mØ	15 †Δ					A	R51	
23#	2S3221	300m	.15M§Δ			15	15	10	100m			10mØ	15 †Δ					A	R51	
24#	2CY31	300m	.25M§Δ	1.7m	§A	64	64	45	100m	20u	6.0Ø	1.0mØ	25 Δ				80pØ	A	TO5	
25#	2S3230	300m	.25M§Δ			25	25	10	100m			10mØ	25 †Δ					A	R51	
26#	2S022	300m	.30MΔ		§A	40		30			10Ø	10mØ	33 †					A		
27#	2CY32	300m	.40M§Δ	1.7m	§A	64	64	45	100m	20u	6.0Ø	1.0mØ	35 Δ				80pØ	A	TO5	
28#	2S3240	300m	.40M§Δ			15	15	10	100m			10mØ	40 †Δ					A	R51	
29#	2CY34	300m	.60M§Δ	1.7m	§A	32	32	16	100m	20u	6.0Ø	1.0mØ	25 Δ				80pØ	A	TO5	
30#	2S023	300m	.80MΔ		§A	40		30			10Ø	10mØ	60 †					A		
31#	2S3021	300m	.80M§	1.7m	§S	15	15	10	100m	10u	6.0Ø	.10mØ	11	17u	800	2.7	40p	AØ	ZA11	
32#	2S3040	300m	3.5M§	1.7m	§S	15	15	10	100m	10u	6.0Ø	.10mØ	39	78u	3.2k	8.4	40p	AØ	ZA11	
33	ST8700	300m	30M§Δ	1.6m	§J	50	30	5.0		20nØ	5.0Ø	100uØ	40 †Δ	1.0uØb	32 Ø		10pØ	PEØ	TO18	Ø
34#	ZT153	300m	30M§Δ	2.4m	§A	35	35	25	500m	.10u	6.0Ø	100m	35 †				5.0p	PE	TO18	
35#	ZT154	300m	30M§Δ	2.4m	§A	45	45	25	500m	.10u	6.0Ø	100m	50 †				5.0p	PE	TO18	
36	2N1131A/51†	300m	50M§Δ	2.0m	§J	60	40	5.0	600m	500nØ	10Ø	150mØ	20 †#Δ	1.0uØb	35 Ø	8.0 Ø	30pØ	PE	TO51	A
37	2N1132/51	300m	60M§Δ	2.0m	§J	50	35	5.0	600m	1.0uØ	10Ø	150mØ	30 †#Δ	1.0uØb	35 Ø	8.0pØ	45pØ	PE	TO51	AØ
38	2N1132B/51†	300m	60M§Δ	1.6m	§J	70	45	6.0	600m	10nØ	10Ø	150mØ	30 †#Δ	1.0uØb	35 Ø	8.0 Ø	30pØ	PE	TO51	AØ
39	2N2927/51	300m	100M§Δ	1.7m	§J	25	25	4.0	500m	.02uØ	1.0Ø	50mØ	30 †Δ	1.2mØ	1.5kØ	26 Ø	20pØ	PE	TO51	
40#	2SA604	300m	100M§Δ	2.4m	§J	120	100	5.0	30m	1.0u#	3.0Ø	1.0mØ	40 †Δ				5pØ	PE	TO18	AØ
41#	2SA605	300m	100M§Δ	2.4m	§J	180	160	6.0	50m	50n	3.0Ø	1.0mØ	50 †Δ				5.0pØ	PE	TO18	AØ
42	A170	300m	100M§	2.0m	§J	40	20	5.0	100m		5.0Ø	2.0mØ	40 †Δ				5.0p†	PL	TO18	AØ
43	GI3702	300m	100M§	3.0m	♦J	40	25	5.0		.10uØ	5.0Ø	50mØ	60 †Δ#				12pØ		R97d	
44	GI3703	300m	100M§	3.0m	♦J	50	30	5.0		.10uØ	5.0Ø	50mØ	30 †Δ#				12pØ		R97d	
45	ST8704	300m	100M§	1.6m	§J	45	30	6.0		10nØ	5.0Ø	500uØ	60 †Δ				10p	PE	TO18	Ø
46	ST8705	300m	100M§	1.6m	§J	45	30	6.0		10nØ	5.0Ø	500uØ	150 †Δ				10p	PE	TO18	Ø
47	TE3702	300m	100M§Δ	3.0m	§S	40	25	5.0	200m	100nØ	5.0Ø	50mØ	300 #Ø				12pØ		TO106	
48	TE3703	300m	100M§Δ	3.0m	§S	50	30	5.0	200m	100nØ	5.0Ø	50mØ	150 #Ø				12pØ		TO106	
49	TE5448	300m	100M	2.3m	§J	50	30	5.0	200m	100n	5.0	50m	30				12f		TO106	A
50	2N2800/51†	300m	120M§Δ	1.7m	§J	50	35	5.0	800m	.10u	10Ø	150mØ	30 †Δ				25p	E	TO51	
51	2N2801/51†	300m	120M§Δ	1.7m	§J	50	35	5.0		.10u	10Ø	150mØ	75 †Δ				25p	E	TO51	
52	A171	300m	130M§	2.0m	§J	30	20	5.0	100m		5.0Ø	2.0mØ	100 †Δ				5.0p†	PL	TO18	AØ
53#	BC157VI	300m	130M§	2.4m	§J		45	5.0	100m		5.0Ø	2.0mØ	100	20u	1.2k	2.5	6.0pØ	PE†	MM10	A
54#	BC158VI	300m	130M§	2.4m	§J		25	5.0	100m		5.0Ø	2.0mØ	100 †	20u	1.2k	2.5	6.0pØ	PE†	MM10	A
55	2N2391	300m	140M§Δ	2.0m	§S	25	20	5.0	50m	10u	10Ø	10mØ	15 Δ				5.0pØ		u25	A
56	2N2392	300m	140M§Δ	2.0m	§S	25	20	5.0	50m	10u	10Ø	10mØ	30 Δ				5.0pØ		u25	A
57	2N3081/51	300m	150M§Δ	1.7m	§J	70	50	6.0	600m	.01uØ	10Ø	150mØ	30 †Δ				13pØ	PE	TO51	A
58#	V205†	300m	160M§	2.0m	§A	15	10	3.0		.02u§Ø	1.0Ø	20mØ	55 †#				8.0p	DPEØ	TO18	A
59#	AT410	300m	200MΔ§	2.4m	§J	30	30	5.0	500m	200nØ	10Ø	150mØ	30 †Δ				8.0pØ	PE	MM12a	D
60#	AT412	300m	200MΔ§	2.4m	§J	45	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	MM12a	D
61#	AT413	300m	200MΔ§	2.4m		45	45	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	MM12a	D
62#	AT414	300m	200MΔ§	2.4m		30	30	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	MM12a	D
63#	AT415	300m	200MΔ§	2.4m	§J	30	30	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	MM12a	D
64#	AT416	300m	200MΔ§	2.4m	§J	45	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	MM12a	D
65#	AT417	300m	200MΔ§	2.4m	§J	45	45	5.0	500m	200n	1.0Ø	50mØ	100 Δ				8.0pØ	PE	MM12a	D
66#	AT418	300m	200M	2.4m	§J	30	30	5.0	500m	200nØ	1.0Ø	50mØ	100 †#Δ				8.0pØ	PE	MM12a	A
67#	AT419	300m	200M	2.4m	§J	30	30	5.0	500m	200nØ	10Ø	150mØ	90 †#Δ				8.0pØ	PE	MM12a	A
68#	BC212VI	300m	200M§Δ	2.5m	§J	60	50	5.0	200m	15nØ	5.0Ø	2.0mØ	100	10u	1.2k	1.0	6.0pØ	PEØ	X64a	A
69#	BC214LA†	300m	200M§Δ	2.4m	§S	45	30	5.0	200m	15nØ	5.0Ø	2.0mØ	300 Ø				10pØ	PEØ	TO92	B
70#	BCW52	300m	200M§Δ			50	30		200m			20mØ	150 †Δ				5.0pØ	Δ	X55c	
71#	BFS32	300m	200M	2.4m	§	45	45	5.0	200m	20n	10Ø	50mØ	30 †Δ				10p	PEØ	u34	
72#	BFS33	300m	200M	2.4m	§	45	45	5.0	200m	20n	10Ø	2.0mØ	60 †Δ				10p	PEØ	u34	
73#	BFS34	300m	200M	2.4m	§	45	30	5.0	200m	20n	10Ø	2.0mØ	100 †Δ				10p	PEØ	u34	
74	GI3644†	300m	200M§	3.0m	♦J	45	45	5.0		.03u§Ø	10Ø	150mØ	100 †Δ				8pØ		TO18	A
75	GI3638†	300m	250M§	3.0m	♦J	25	25	4.0		.03u§Ø	3.0Ø	50mØ	1.0 Δ	1.2mØ	2kØ	26 Ø	20pØ		R97d	
76	GI3638A†	300m	250M§	3.0m	♦J	25	25	4.0		.03u§Ø	3.0Ø	50mØ	1.5 Δ	1.2mØ	2kØ	15 Ø	10pØ		R97d	
77	TE3906†	300m	250M§Δ	2.4m	§J	40	40	5.0	200m	50n#	10Ø	1.0mØ	100 Δ	60uØ	12kØ	10 Ø	4.5pØ	DPLØ	R97a	A
78	QD400-71*	300m	300M§Δ	1.7m	§S	25	25	6.0	20m	1.0nØ	5.0Ø	10uØ	50 †Δ	40uØ			3.0pØ	E*	L2p	
79	QD401-71*	300m	300M§Δ	1.7m	§S	45	45	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40uØ			2.0pØ	E*	L2p	
80	2N4451†	300m	400M§Δ	1.7m	§S		12	4.0	100m	.08u§	.50Ø	30mØ	40 †#Δ				6p$Ø		TO46	A
81#	BSV55†	300m	400M	2.4m	§						.50Ø	30mØ	40 †Δ				6.0p		u34	
82#	BSV55A†	300m	400M	2.4m	§						.50Ø	30mØ	30 †Δ				6.0p		u34	
83	FM2894†	300m	400M§Δ	1.7m	§J	12	12	4.0		80nØ	.50Ø	30mØ	40 †Δ#				6.0p	PE	TO46	Ø
84	MPS2894†	300m	400M§Δ	3.0m	♦J	12	12	4.0		80nØ	.30Ø	1.0mØ	25 †#Δ				6.0pØ	E	X20b	
85#	V405†	300m	400M§Δ	2.0m	§J	10	10	3.0	200m	.10uØ	.50Ø	30mØ	20 †Δ				6.5pØ	PE	TO18	Ø
86	QD402-71*	300m	450M§Δ	1.7m	§S	25	25	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40uØ			2.0pØ	E*	L2p	
87	QD403-71*	300m	450M§Δ	1.7m	§S	45	45	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40uØ			2.0pØ	E*	L2p	
88	QD404-71*	300m	450M§Δ	1.7m	§S	45	45	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40uØ			2.0pØ	E*	L2p	
89#	V721†	300m	480M§		§						1.0Ø	10mØ	50 †				3.0p	PE	TO18	A
90#	BSX94†	300m	650M§Δ	1.7m	§J	6.0	6.0	4.5		.01u§	.50Ø	1.0mØ	35 †#Δ				3pØ	DPE	TO18	AØ
91	RT2462†	300m	800M§Δ	1.7m	§J	15	10	5.0		.05uØ	.50Ø	10mØ	20 †Δ				3pØ	PE	TO18	
92	TE5086	310m	40M§Δ	3.6m	†S	50	50	3.0	50m	50nØ	5.0Ø	1.0mØ	150 Δ				4.0p$Ø	Ø	TO106	A
93	TE5087	310m	40M§Δ	3.6m	†S	50	50	3.0	50m	50nØ	5.0Ø	1.0mØ	250 Δ				4.0p$Ø	Ø	TO106	A
94	TE3905†	310m	200M§Δ	2.8m	†J	40	40	5.0	200m	50n#	10Ø	1.0mØ	50 Δ	40uØ	8.0kØ	5.0 Ø	4.5pØ	Ø	TO106	A
95	TE4125	310m	200M§Δ	2.8m	†J	30	30	4.0	200m	50nØ	10Ø	2.0mØ	50 Δ				4.5p$	Ø	TO106	A
96	MPS6580	310m	250M§Δ	2.8m	†J	25	25	3.0		10uØ	10Ø	2.0mØ	20 †Δ				1p$Ø	E†	X20d	C
97	TE4126	310m	250M§Δ	2.8m	†J	25	25	4.0	200m	50nØ	10Ø	2.0mØ	120 Δ				4.5p$	Ø	TO106	A
98#	OC742Ø	330m*Ø				25	25 Ø	25	50m	.05u									RO66	
99#	OC703	330m*	.50M	3.1m	§J	80	80	30	50m	.10uØ	6.0Ø	1.0mØ	15				20p	Ø	R42	
100#	OC703A	330m*	.50M	3.1m	§J	100	100	30	50m	.10uØ	6.0Ø	15m					20p	Ø	R42	
101#	OC701	330m*	1.0M	3.1m	§J	80	80	30	50m	.10uØ	6.0Ø	1.0m	35				20p	Ø	R42	
102#	OC700	330m*	1.7M	3.1m	§J	25	25	25	50m	.10uØ	6.0Ø	1.0m	30				20p	Ø	R42	
103#	OC700A	330m*	1.7M	3.1m	§J	25	25	25	50m	.10uØ	6.0Ø	1.0m	25				20p	Ø	R42	
104#	OC702	330m*	2.2M	3.1m	§J	25	25	25	50m	.10uØ	6.0Ø	1.0m	70				20p	Ø	R42	
105#	OC702A	330m*	2.2M	3.1m	§J	15	15	15	50m	.10uØ	6.0Ø	1.0m	70				20p	Ø	R42	
106#	OC702B	330m*	2.2M	3.1m	§J	10	10	10	50m	.10uØ	6.0Ø	1.0m	70				20p	Ø	R42	
107#	OC700B	330m*	3.5M	3.1m	§J	25	25	25	50m	.10uØ	6.0Ø	1.0m	30				20p	Ø	R42	
108#	OC704	330m*	5.0M	3.1m	§J	3.0	3.0	3.0	50m	.10uØ	2.0Ø	1.0m	70				20p	†	R42	
109	D29A6	330m	630M§Ø	3.3m	♦J	35	25	4.0	500m#	100n	10Ø	2.0mØ	200 Δ				8.0p$Ø	PE	TO98	B

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 DERATE IN FREE AIR W/°C	fab (Hz)	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	D29A7	330m	3.3m	630M§☑	♦J	50	40	4.0	500m#	100n	10Ø	2.0mØ	32 Δ				8.0p$☑	PE	TO98	B
2	D29A8	330m	3.3m	630M§☑	♦J	50	40	4.0	500m#	100n	10Ø	2.0mØ	80 Δ				8.0p$☑	PE	TO98	B
3	D29A9	330m	3.3m	630M§☑	♦J	50	40	4.0	500m#	100n	10Ø	2.0mØ	200 Δ				8.0p$☑	PEØ	TO98	B
4	D29A10†	330m	3.3m	630M§☑	♦J	60	60	5.0	500m#	50n	10Ø	2.0mØ	32 Δ				8.0p$☑	PE	TO98	B
5	D29A11†	330m	3.3m	630M§☑	♦J	60	60	5.0	500m#	50n	10Ø	2.0mØ	80 Δ				8.0p$☑	PE	TO98	B
6	D29A12	330m	3.3m	630M§☑	♦J	35	25	4.0	500m#	.10u	10Ø	2.0mØ	200 Δ				8p$☑	PEØ	TO98	B
7#	OC740Ø	333m*Ø	3.1m		$J	15	15 Ø	15	50m	.05u									RO66	
8	2N327	337m	2.5m	.30M	$J		40	20	50m	.00uØ	6.0	1.0m	14				30p	F		
9	2N328	337m	2.5m	.35M	$J		30	20	5.0m	.00uØ	6.0	1.0m	24				30p	F	TO5	
10	2N330	337m	2.5m	.50M	$J		20	20	50m	.00uØ	6.0	1.0m	30				15p	F		
11	2N329	337m	2.5m	.60M	$J		20	20	50m	.00uØ	6.0	1.0m	50				30p	F		
12	BCY20	350m	2.8m	.50M	$J	100	100	50	50m	.02uØ	6.0Ø	1.0mØ	10 Δ	15u	600	3.0	45p	AØ	TO5	
13#	BCY22	350m	2.7m	500k	$J	75	75	40	50m	20nØ	6.0Ø	1.0mØ	10 Δ	15u	600k	3.0	45p	AØ	TO5	
14	USAF518ES065M	350m	1.4m	30M§Δ	§J		70	7.0	30m	10nØ	5.0Ø	1.0 Ø	155 Δ	1.0uØb	32 Ø	8.0 Ø	8.0pØ	PLD	X34	
15	JAN2N1196	350m	2.0m	40M§	§A	70	70	4.0	15m	250nØ	10	2.0m	10	300nb	20	600m	4.0pØ	MEØ	TO5	
16	USAF516ES047M†	350m	1.4m	100M§Δ	§J	35	20	4.0	100m	10nØ	10Ø	10 Ø	30 Δ	1.0uØb	32 Ø	20 Ø	8.0pØ	PLE	X34	
17	USAF516ES048M†	350m	1.4m	100M§Δ	§J	35	20	4.0	100m	10nØ	10Ø	10 Ø	30 Δ	1.0uØb	32 Ø	20 Ø	8.0pØ	PLE	X34	
18#	BC281A	360m	2.0m		§J	45	45	6.0	200m	10n†	5.0Ø	1.0mØ	50 †Δ	12m	3.4k	1.8	5.0p	DPE	TO18	
19#	BC281B	360m	2.0m		§J	45	45	6.0	200m	10n†	5.0Ø	1.0mØ	100 †Δ	14m	5.0k	2.6	5.0p	DPE	TO18	
20#	BC281C	360m	2.0m		§J	45	45	6.0	200m	10n†	5.0Ø	1.0mØ	150 †Δ	19m	6.5k	3.3	5.0p	DPE	TO18	
21#	BC291A	360m	6.8m		§J	45	45	6.0	200m	10n	5.0Ø	1.0mØ	100 †Δ				5.0p	PEØ	TO18	A
22#	BC291D	360m	6.8m		§J	45	45	6.0	200m	10n	5.0Ø	1.0mØ	50 †Δ				5.0p	PEØ	TO18	A
23#	BC292A	360m	6.8m		§J	45	45	6.0	200m	10u	5.0Ø	1.0mØ	200 †				5.0p	PEØ	TO18	A
24#	BC292B	360m	6.8m		§J	45	45	6.0	200m	10u	5.0Ø	1.0mØ	400 †				5.0p	PEØ	TO18	A
25	PET4058	360m	3.6m		♦J	30	30	5.0	100m	100nØ	5.0Ø	100uØ	100 †Δ					PEØ	R110	A
26	PET4059	360m	3.6m		♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	45 †Δ					PE	R110	A
27	PET4060	360m	3.6m		♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	45 †Δ					PE	R110	A
28	PET4061	360m	3.6m		♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	90 †Δ					PE	R110	A
29	PET4062	360m	3.6m		♦J	30	30	5.0	100m	100nØ	5.0Ø	1.0mØ	180 †Δ					PE	R110	A
30	TE5365	360m	3.6m		$S	40	40	4.0	500m	100n	10Ø	2.0mØ	32 Δ				8.0p$☑		TO106	A
31	TE5366	360m	3.6m		$S	40	40	4.0	500m	100n	10Ø	2.0mØ	80 Δ				8.0p$☑		TO106	A
32	TE5367	360m	3.6m		$S	40	40	4.0	500m	100n	10Ø	2.0mØ	200 Δ				8.0p$☑		TO106	A
33#	V653	360m	2.0m		§	45	45	5.0		50n	5.0Ø	10mØ	230 †	18u	5.0k	3.0	7.0pØ	PL	TO18	A
34	PA1000	360m	2.0m	60MΔ§	§J	30	25	7.0		.01uØ	5.0Ø	1.0mØ	100 †#Δ				8.0p	PLØ	TO18	
35	FT0019H	360m	2.0m	90M§	§J	100	80	6.0		10nØ	5.0Ø	1.0mØ	183	14u	5.0k	2.7	6.0pØ	DPL	TO18	Ø
36	FT0019M	360m	2.0m	90M§	§J	80	60	6.0		10nØ	5.0Ø	1.0mØ	183	14u	5.0k	2.7	6.0pØ	DPL	TO18	Ø
37	PA1001	360m	2.0m	100M§	§J	60	45	7.0		.01uØ	5.0Ø	1.0mØ	50 †#Δ				8pØ	PLØ	TO18	
38	PET3702	360m	3.6m	100M§Δ	♦J	40	25	5.0	500m	100nØ	5.0Ø	50mØ	60 †#Δ				12pØ		R110	A
39	PET3703	360m	3.6m	100M§Δ	♦J	50	30	5.0	500m	100nØ	5.0Ø	50mØ	30 †#Δ				12pØ		R110	A
40	PET8300	360m	3.6m	100M§Δ	♦J	40	40	5.0	100m	10n	10Ø	1.0mØ	180 Δ					PEØ	R110	A
41	PET8301	360m	3.6m	100M§Δ	♦J	40	40	5.0	100m	10n	10Ø	1.0mØ	110 Δ					PEØ	R110	A
42	PET8302	360m	3.6m	100M§Δ	♦J	30	30	5.0	100m	10nØ	10Ø	1.0mØ	300 Δ					PEØ	R110	A
43	PET8303	360m	3.6m	100M§Δ	♦J	30	30	5.0	100m	10nØ	10Ø	1.0mØ	110 Δ					PEØ	R110	A
44	PET8304	360m	3.6m	100M§Δ	♦J	30	30	5.0	100m	10nØ	10Ø	1.0mØ	50 Δ					PEØ	R110	A
45#	BC404	360m	3.6m	150M§	♦J	80	80	6.0	150m	15n	5.0Ø	2.0mØ	75 †				4.0p	PE	TO92	
46#	BC404A	360m	3.6m	150M	♦	80	80	6.0	150m	15n	5.0Ø	2.0mØ	110 Δ				4.0p	PE	TO92	
47#	BC404VI	360m	3.6m	150M	♦	80	80	6.0	150m	15n	5.0Ø	2.0mØ	70 Δ				4.0p	PE	TO92	
48#	BC405	360m	3.6m	150M§	♦J	60	60	6.0	150m	15n	5.0Ø	2.0mØ	125 †				4.0p	PE	TO92	
49#	BC405A	360m	3.6m	150M	♦	60	60	6.0	150m	15n	5.0Ø	2.0mØ	110 Δ				4.0p	PE	TO92	
50#	BC405B	360m	3.6m	150M	♦	60	60	6.0	150m	15n	5.0Ø	2.0mØ	200 Δ				4.0p	PE	TO92	
51#	BC406	360m	3.6m	150M§	♦J	40	40	6.0	150m	15n	5.0Ø	2.0mØ	240 †				4.0p	PE	TO92	
52#	BC406B	360m	3.6m	150M	♦	40	40	6.0	150m	15n	5.0Ø	2.0mØ	200 Δ				4.0p	PE	TO92	
53	FT1746	360m	2.0m	150M§	§J	35	30	4.0		5.0nØ	5.0Ø	10mØ	20 †Δ				9.0pØ	PEΔ	TO18	Ø
54	GME0404	360m	3.6m	150M§Δ	♦J	25	25	4.0		.10uØ	5.0Ø	50mØ	30 †Δ				12pØ	PEΔ	X45	
55	PET0404	360m		150M		25	25	4.0	500m	.10uØ	5.0Ø	50mØ	100 †	70u	190		12p	PE	TO18	
56#	AT430	360m	2.0m	200MΔ§	§J	30	30	5.0	500m	200nØ	10Ø	150mØ	30 †Δ				8.0pØ	PE	TO18	AØ
57#	AT431	360m	2.0m	200MΔ§	§J	45	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO18	AØ
58#	AT432	360m	2.0m	200MΔ§	§J	30	30	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	TO18	AØ
59#	AT433	360m	2.0m	200MΔ§	§J	45	45	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	TO18	AØ
60#	AT434	360m	2.0m	200MΔ§	§J	30	30	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO18	AØ
61#	AT435	360m	2.0m	200MΔ§	§J	45	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO18	AØ
62#	AT436	360m	2.0m	200MΔ§	§J	25	25	4.0	500m	200n	2.0Ø	250mØ	40 Δ				8.0pØ	PE	TO18	AØ
63#	AT437	360m	2.0	200M	§J	30	30	5.0	500m	200n	1.0Ø	50mØ	100 †Δ#					PE	TO18	A
64#	AT438	360m	2.0	200M	§J	45	45	4.0	500m	200n	1.0Ø	50mØ	100 †Δ#					PE	TO18	A
65	GME0404-1	360m	3.6m	200M§Δ	♦J	40	30	5.0		50u§Ø	1.0Ø	10mØ	20 †Δ				12pØ	PEΔ	X45	
66	GME0404-2	360m	3.6m	200M§Δ	♦J	40	30	5.0		50n§Ø	1.0Ø	10mØ	40 †Δ				12pØ	PEΔ	X45	
67#	ME501Δ	360m	2.7m	200MΔ	§J	25		12	500m	100nØ	1.0Ø	50mØ	10 †Δ#				13pØ	PEΔ	TO106	A
68#	ME502	360m	2.9m	200M§Δ	§J	25	20 *	12	500m	.10uØ	1.0Ø	50mØ	20 †#Δ				13pØ	PE	TO106	A
69#	ME511	360m	2.9m	200MΔ	§J	50		40	500m	.10uØ	1.0Ø	50mØ	10 †#Δ				13pØ	PE†Δ	TO106	A
70#	ME512	360m	2.9m	200M§Δ	§J	50		40	500m	.10uØ	1.0Ø	50mØ	20 †#Δ				13pØ	PEΔ†	TO106	A
71#	ME513	360m	2.8m	200M§Δ	§J	70	60	60	500m	100nØ	5.0Ø	50mØ	40 †Δ#				13pØ	PEΔ	R110	A
72	PET0404-1	360m		200M		40	30 Ø	5.0	500m		1.0Ø	50mØ	100	70u	190		12p	PE		
73	PET0404-2	360m		200M		40	30 Ø	5.0	500m		1.0Ø	50mØ	175	70u	190		12p	PE	TO18	
74	PET3905	360m	3.5m	200M§Δ	♦J	40	40	5.0	200m	50nØ	1.0Ø	10mØ	50 †Δ				4.5p	PE	R110	A
75	PET4125	360m	3.5m	200M§Δ	♦J	30	30	4.0	200m	50n#	1.0Ø	2.0mØ	50 †Δ				4.5p	PE	R110	A
76	TE5378	360m	2.8m	200M§Δ	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 Δ	500nØb	32 Ø		10p$☑		TO106	A
77	TE5379	360m	2.8m	200M§Δ	§J	40	30	5.0	500m	10nØ	5.0Ø	1.0mØ	100 Δ	500nØb	32 Ø		10p$☑		TO106	A
78	TP4125	360m	2.8m	200M§Δ	§J	30	30 §	4.0	200m	50nØ	1.0Ø	2.0mØ	50 †#Δ				4.5p$☑	PLØ	X55a	A
79	PET3906	360m	3.5m	250M§Δ	♦J	40	40	5.0	200m	50n#	1.0Ø	10mØ	100 †Δ				4.5p	PE	R110	A
80	PET4126	360m	3.5m	250M§Δ	♦J	25	25	4.0	200m	50nØ	1.0Ø	2.0mØ	120 †Δ				4.5p	PE	R110	A
81	TP4126	360m	2.8m	250M§Δ	§J	25	25 §	4.0	200m	50nØ	1.0Ø	2.0mØ	120 †#Δ				4.5p$☑	PLØ	X55a	A
82	MD1T3251	360m		300M§	§A	50	40	5.0	200m		20Ø	10mØ	3.0 Δ				6.0pØ	Δ	TO122	P
83	MM2894†	360m	2.1m	400M§Δ	§J	15	12	4.5		.08uØ	.50Ø	30mØ	70 †#				6pØ	E	RO38w	
84#	V723†	360m		450M§	§						1.0Ø	10mØ	130 †				3.0p	PE	TO18	A
85#	V743	360m	6.8m	450M§	§J	20	20	5.0		50u	5.0Ø	10mØ	130 †	28u	1.1k	1.2	3.0p	PEØ	TO18	A
86#	BF317	360m	2.0m	500M	♦	20	20	4.0	100m		2.0Ø	10mØ	60 Δ				2.2p	PE	TO106	
87	MM4048	360m	2.0m	500M§☑	§J	45	45	5.0	50m	.01uØ	5.0Ø	.50mØ	150 †Δ				4pØ	ANØ	TO18	A
88	RT2459†	360m	2.0m	700M§Δ	§J	60	60	5.0			.40Ø	10mØ	100 †Δ	35u	7.0k	20 Ø	4.5pØ	PEØ	TO18	
89	RT2460	360m	1.0G§	2.0m	§J	40	40	5.0			5.0Ø	1.0mØ	60 †Δ	1.0uØb	29	10 Ø	6.0pØ	PEØ	TO18	
90	CD91*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	50 †Δ					E*	L17a	
91	CD92*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	50 †Δ					E*	L17a	
92	CD93*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	50 †Δ					E*	L17a	
93	CD94*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	50 †Δ					E*	L17a	
94	CD95*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	100 †Δ					E*	L17a	
95	CD96*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	100 †Δ					E*	L17a	
96	CD97*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	100 †Δ					E*	L17a	
97	CD98*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	100 †Δ					E*	L17a	
98	CD912*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	50 †Δ					E*	TO46	AØ
99	CD922*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	50 †Δ					E*	TO46	AØ
100	CD932*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	50 †Δ					E*	TO46	AØ
101	CD942*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	50 †Δ					E*	TO46	AØ
102	CD952*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	100 †Δ					E*	TO46	AØ
103	CD962*	400m		2.2m	§J	30	30	10	50m	10nØ	10Ø	1.0uΔ	100 †Δ					E*	TO46	AØ
104	CD972*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	100 †Δ					E*	TO46	AØ
105	CD982*	400m		2.2m	§J	30	30	10	50m	100nØ	10Ø	1.0uΔ	100 †Δ					E*	TO46	AØ
106	MD1T2605	400m			§A	60	45	6.0	30m	10nØ	5.0	1.0m	150 Δ				6.0pØ		TO122	P
107	NS1861	400m		2.2m	§J	30	30	20		1.0uØ	6.0Ø	1.0mØ	50 Δ					DE	TO5	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	NS1862	400m		2.2m	§J	50	50	35		1.0uØ	6.0Ø	1.0mØ	50 ☑					DE	TO5	A
2	UC1100	400m		2.2m	§J	45	45	6.0	30m	500n	5.0Ø	10uØ	200 †Δ				6.0p☑	PLØ	TO46	A
3	QD400-78*	400m	300 §Δ	2.3m	§S	25	25	6.0	20m	1.0nØ	5.0Ø	10uØ	50 †Δ	40u☑			3.0p☑	E*	L2d	
4	QD401-78*	400m	300 §Δ	2.3m	§S	45	45	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40u☑			2.0p☑	E*	L2d	
5	QD402-78*	400m	450 §Δ	2.3m	§S	25	25	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40u☑			2.0p☑	E*	L2d	
6	QD403-78*	400m	450 §Δ	2.3m	§S	45	45	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40u☑			2.0p☑	E*	L2d	
7	QD404-78*	400m	450 §Δ	2.3m	§S	45	45	6.0	20m	500pØ	5.0Ø	10uØ	100 †Δ	40u☑			2.0p☑	E*	L2d	
8	2N2871Ø	400m	500kΔ	2.8m	§S	60	60	60	200m#	100nØ	5.0Ø	1.0mØ	15 †Δ				70p☑	Δ	L17j	
9	2N2872Ø	400m	500kΔ	2.8m	§S	110	110	110	200m#	100nØ	5.0Ø	1.0mØ	15 †Δ				70p☑	Δ	L17j	
10	NS1002	400m	800k	2.9m	§J	110	110	110	100m	100nØ	5.0	1.0m	22	1.2ub	60	16	20p☑	A†	TO5	
11	2N1232A	400m	1.0M	3.1m	§	90		90		100n	5.0	1.0m	20	1.2ub	30	4.0	95p	A	TO5	
12	2N2174	400m	1.0M	2.3m		45					5.0	10m	22 †Δ					A		
13	MA7805Ø	400m	1.0M	2.8m	ØJ	10	10	10	100m	50n							70p☑	A	TO5	
14	MA7811Ø	400m	1.0M	2.8m	ØJ	10	10	10	100m	50nØ							90p☑	A	TO5	
15	MA7816Ø	400m	1.0M	2.8m	ØJ	30	30	30	100m	50nØ							70p☑	A	TO5	
16	MA7817Ø	400m	1.0M	2.8m	ØJ	30	30	30	100m	50nØ							70p☑	A	TO5	
17	NS100	400m	1.0M	2.3m	§A	50		50	100m	.02u	6.0	1.0m	50	35u	1.0k		5.0p	A		
18	NS101	400m	1.0M	2.3m	§A	50		50	100m	.02u	6.0	1.0m	20	35u	1.0k		5.0p	A		
19	NS661	400m	1.0M§Δ	2.3m	§J	30	15	30		1.0uØ	6.0Ø	1.0m	50 Δ					DE	TO5	A
20	NS662	400m	1.0M§Δ	2.3m	§J	40	35	35		1.0uØ	6.0Ø	1.0m	50 Δ					DE	TO5	A
21	NS663	400m	1.0M§Δ	2.3m	§J	50	35	35		1.0uØ	6.0Ø	1.0m	50 Δ					DE	TO5	A
22	NS664	400m	1.0M§Δ	2.3m	§J	50	50	50		1.0uØ	6.0Ø	1.0m	50 Δ					DE	TO5	A
23	NS1000	400m	1.0M	2.9m	§J	60	60	60	100m	100nØ	5.0	1.0m	22	1.2ub	60	16	20p☑	A†	TO5	
24	NS1001	400m	1.0M	2.9m	§J	60	60	60	100m	100nØ	5.0	1.0m	40	1.2ub	60	16	20p☑	A†	TO5	
25	C9080	400m	5.0M	2.3m	§J	30	30	5.0	100m	.01uØ	6.0Ø	1.0m	85				10p☑	E	TO5	A
26	C9082	400m	5.0M	2.3m	§J	30	30	5.0	100m	.01uØ	6.0Ø	1.0m	85				10p☑	E	TO18	A
27	C9084	400m	5.0M	2.3m	§J	30	30	5.0	100m	.01uØ	6.0Ø	1.0m	85				10p☑	E	R135	A
28	C9081	400m	8.0M	2.3m	§J	30	30	5.0	100m	.01uØ	6.0Ø	1.0m	155				10p☑	E	TO5	A
29	C9083	400m	8.0M	2.3m	§J	30	30	5.0	100m	.01uØ	6.0Ø	1.0m	155				10p☑	E	TO18	A
30	C9085	400m	8.0M	2.3m	§J	30	30	5.0	100m	.01uØ	6.0Ø	1.0m	155				10p☑	E	R135	A
31	TW135Ø	400m	10M§Δ	2.3m	§J	30		15	100m	1.0n			50 †Δ				9p☑	PE	TO18	A
32	RT3500	400m	16M§Δ	2.3m	§J	10	6.0	10		3nØ	.50Ø	5.0mØ	10 †Δ				10p☑	PL	TO46	
33	ST8035	400m	30M§Δ			40	40 §	2.0		1.0u	5.0Ø	1.0mØ	30				45p	PL	TO18	
34	ST8036	400m	40M§Δ			40	40 §	2.0		1.0u	5.0Ø	1.0mØ	60				45p	PL	TO18	
35	ST61000Ø	400m	40M§Δ	4.3m		40	35	40	100m	.20n	6.0Ø	1.0mØ	100 †Δ				7p☑	PE	TO46	AØ
36	NS1672	400m	90M§	2.2m	§J	25	15	5.0		100nØ	5.0Ø	100uØ	40 †Δ	500nb	27	6.0	5.0p		TO18	A
37	NS1673	400m	90M§	2.2m	§J	25	15	5.0		100nØ	5.0Ø	100uØ	100 †Δ	500nb	27	6.0	5.0p		TO18	A
38	NS1674	400m	90M§	2.2m	§J	25	15	5.0		100nØ	5.0Ø	100uØ	40 †Δ	500nb	27	6.0	5.0p		TO46	A
39	NS1675	400m	90M§	2.2m	§J	25	15	5.0		100nØ	5.0Ø	100uØ	100 †Δ	500nb	27	6.0	5.0p		TO46	A
40#	SI351P†	400m	90.M§	2.3m	§J	50	35	6.0		25nØ	5.0	1.5m	15 †Δ				20p	DPL	TO18	
41#	SI352P†	400m	90.M§	2.3m	§J	50	35	6.0		25nØ	5.0	1.5m	30 †Δ				20p	DPL	TO18	
42#	SI353P†	400m	90.M§	2.3m	§J	50	35	6.0		25nØ	5.0	1.5m	60 †Δ				20p	DPL	TO18	
43	2N1132A/46	400m	96MΔ	3.0m	§J	50	35	5.0		1.0u	10Ø	500uØ	30 †#Δ	1.0u☑b	35 ☑	8.0 ☑	45p☑	D	TO46	
44	2N1132B/46	400m	100M	2.3m	§J	70	45	6.0	600m	100u	10Ø	150mØ	60 †	.25u	28	3.0	25p	PL	TO46	
45#	AT390	400m	100MΔ§	2.3m	§J	40	40	5.0	1.0	200nØ	1.0Ø	50mØ	40 †Δ				20p☑	PE	TO18	AØ
46#	AT391	400m	100MΔ§	2.3m	§J	60	60	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20p☑	PE	TO18	AØ
47#	AT392	400m	100MΔ§	2.3m	§J	80	80	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20p☑	PE	TO18	AØ
48#	AT393	400m	100MΔ§	2.3m	§J	40	40	5.0	1.0	200n	1.0Ø	50mØ	100 Δ				20p☑	PE	TO18	AØ
49#	AT394	400m	100MΔ§	2.3m	§J	60	60	5.0	1.0	200n	1.0Ø	50mØ	100 Δ				20p☑	PE	TO18	AØ
50#	AT395	400m	100MΔ§	2.3m	§J	80	80	5.0	1.0	200n	1.0Ø	50mØ	100 Δ				20p☑	PE	TO18	AØ
51#	AT396	400m	100MΔ§	2.3m	§J	40	40	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20p☑	PE	TO18	AØ
52#	AT397	400m	100MΔ§	2.3m	§J	60	60	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20p☑	PE	TO18	AØ
53#	AT398	400m	100MΔ§	2.3m	§J	80	80	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20p☑	PE	TO18	AØ
54#	BC327-01	400m	100M§	4.0m	♦J		45	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				8.0p$	PE	MM10	A
55#	BC328-01	400m	100M§	4.0m	♦J		25	5.0	500m	100n	1.0Ø	100mØ	100 †Δ				8.0p$	PE	MM10	A
56	ST8181	400m	100M§Δ	2.2m	§J	50	35	5.0	1.0	50nØ	10Ø	150mØ	20 †Δ				11p☑	PE	TO18	Ø
57	ST8182	400m	100M§Δ	2.2m	§J	50	35	5.0	1.0	50nØ	10Ø	150mØ	100 †Δ				11p☑	PE	TO18	Ø
58	TQ54	400m	100M§Δ	2.2m	§J	75	45	5.0	600m	10nØ	5.0Ø	1.0mØ	55	900nb	27	1.2	10p☑	PE	TO18	A
59	TQ54A	400m	100M§Δ	2.2m	§J	80	75	5.0	600m	10nØ	5.0Ø	1.0mØ	55	900nb	27	1.2	10p☑	PE	TO18	A
60	TQ60A†	400m	100M§Δ	2.2m	§J	60	60	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500n☑b	35 ☑		10p☑	PE	TO18	A
61	TQ62A†	400m	100M§Δ	2.2m	§J	60	60	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500n☑b	35 ☑		10p☑	PE	TO18	A
62	TQ64A†	400m	100M§Δ	2.2m	§J	30	30	5.0	600m	100nØ	5.0Ø	1.0mØ	35	500n☑b	35 ☑		10p☑	PE	TO18	A
63	S18100†	400m	130M§Δ	2.3m	§J	60	60	4.0		.01u§Ø	1.0Ø	50mØ	150 †#				10p☑	DPE	TO50	A
64#	AT399	400m	150M	2.3m		70	70	5.0	1.0	200nØ	5.0Ø	50mØ	150	830m	203	3.3	20p☑	PE	TO18	A
65#	BC215A	400m	150M§Δ	2.3m	§J	50	30	5.0	600m	.10uØ	10Ø	150mØ	40 †Δ				8p☑	PE	TO18	A
66#	BC215B	400m	150M§Δ	2.3m	§J	50	30	5.0	600m	.10uØ	10Ø	150mØ	100 †Δ				8p☑	PE	TO18	A
67#	BC420	400m	150M§	2.3m	§J	180	180	6.0	100m	20u	10Ø	2.0mØ	70 †				4.0p	PE	TO18	
68	ST8229	400m	150M§Δ	2.2m	§J	50	30	5.0	1.0	50nØ	10Ø	150mØ	40 †Δ				11p☑	PE	TO18	Ø
69	MD1T2907†	400m	200M§		§A	60	40	5.0	200m	20nØ	20Ø	50mØ	2.0 Δ				8.0p☑		TO122	P
70#	2CY38	410m	1.5M§	3.3m	§A	32	32	12	500m	20u	6.0Ø	10mØ	15 Δ					A	TO5	
71#	2CY39	410m	1.5M§	3.3m	§A	64	64	12	500m	20u	6.0Ø	10mØ	15 Δ					A	TO5	
72	USAF517ES060M†	438m	50M§Δ	2.5m	§J	120	80	7.7	500m	.01uØ	10Ø	50mØ	30 Δ				55p☑	PE	u26a	
73	USAF520ES070M†	438m	50M§Δ	2.5m	§J	50	40	5.5	500m	20nØ	10Ø	1.0 Ø	20 †Δ				38p☑	PE	u26a	
74	USAF521ES071M†	438m	50M§Δ	2.5m	§J	35	35	4.0	500m	50nØ	10Ø	150mØ	30 †#Δ				40p☑	PLE	u25	
75	FT3644†	450m	250M§	4.5m	♦J	45	45	5.0		.03u§	10Ø	.10mØ	170 †				4.5p$	DPE	R124bc	A
76	FT3645†	450m	250M§	4.5m	♦J	60	60	5.0		.03u§	10Ø	.10mØ	170 †				4.5p$	DPE	R124bc	A
77#	OC480K	480mØ		2.4m	§J	125	125		50m	2.0u	5.0Ø	1.0m	15	25u	1.1k	6.0	40p	A	R43	
78#	OC463K	480mØ	5.0M	2.4m	§J	10	10		50m	2.0u	5.0Ø	1.0m	30	100u	1.8k		25p	A	R43	
79	NS404	500m	5.0MΔ	3.7m	§J	40	35	25		.50uØ	.15Ø	12mØ	30 †Δ				10p☑	DE	TO5	
80	D29E8	500m	80M§Δ	4.5m	†J	70	60	5.0	750m	100n	2.0Ø	2.0mØ	40 †Δ				15p$☑	PE†	TO98	B
81	TK250A	500m	100M§		§J	40	20	6.0	250m		9.0Ø	.02mØ	20					DΔ	TO9	
82	TK251A	500m	100M§		§J	40	20	6.0	250m		9.0Ø	.02mØ	20					DΔ	TO9	
83	2N5242†	500m	170M§Δ	5.0m	♦S	20	20	5.0	500m	.10u§	1.0Ø	.50mØ	25 †Δ#				35p$☑		TO105	A
84	2N5843*	500m	200M§Δ	2.9m	§S	50	40	5.0	50m	10n	10Ø	1.0mØ	50 Δ	40u☑	6.0k☑	10 ☑	6.0p$☑	*	L2g	
85	FT4354†	500m	200M§	5.0m	♦J	60	60	5.0		.05uØ	10Ø	10mØ	140	75u	800	1.8	15p$	DPLØ	TO105	A
86	FT4355†	500m	200M§	5.0m	♦J	60	60	5.0		.05uØ	10Ø	10mØ	140	75u	800	1.8	15p$	DPLØ	TO105	A
87	FT4356†	500m	200M§	5.0m	♦J	80	80	5.0		.05uØ	10Ø	10mØ	140	75u	800	1.8	15p$	DPLØ	TO105	A
88	FT5040†	500m	200M§	5.0m	♦J	25	25	4.0		.05uØ	5.0Ø	1.0mØ	78	17u	2.3k	4.5	15p$	PEØ	TO105	A
89	FT5041†	500m	200M§	5.0m	♦J	40	40	5.0		.05uØ	5.0Ø	1.0mØ	78	17u	2.3k	4.5	15p$	PEØ	TO105	A
90	MD3133*	500m	200M§Δ	2.9m	§J	50	35	4.0	600m	.05uØ	10Ø	150mØ	40 †#Δ				10p☑	ANΔ	L17c	
91	MD3134*	500m	200M§Δ	2.9m	§J	50	35	4.0	600m	.05uØ	10Ø	150mØ	100 †#Δ				10p☑	ANΔ	L17c	
92	2N5844*	500m	250M§Δ	2.9m	§S	50	40	5.0	50m	10n	10Ø	1.0mØ	100 Δ	60u☑	12k☑	20 ☑	6.0p$☑	*	L2g	
93	SE8540	500m	250M§	5.0m	♦J	30	30	5.0	1.0	50n	1.0Ø	150mØ	70 †#				20p$	DPL	R124c	A
94	ST8014	600m		345u	§J	40	30 §	5.0	600m	1.0uØ	10Ø	.15mØ	85					ME	TO5	
95	ST8500	600m$		5.9m	§J	40	40 Ø	3.0		500u	10Ø	500mØ	15 †#Δ						TO5	A
96	TZ7500	600m					30				5.0Ø	350mØ	50 Δ†				15p$		X93	A
97	TZ7501	600m					30				5.0Ø	350mØ	100 Δ†				15p$		X93	A
98	TZ7502	600m					40				5.0Ø	350mØ	50 Δ†				15p$		X93	A
99	TZ7503	600m					40				5.0Ø	350mØ	100 Δ†				15p$		X93	A
100	NS1234	600m	10.M	3.4m	§J	110	110	60	100m	.10u	5.0	1.0mØ	14 †Δ				10p	DE	TO5	
101	ST8065	600m$	25M§Δ	5.9m	§J	60	50 Ø	5.0		1.0uØ	10Ø	500mØ	40 †#Δ						TO5	A
102	ST8190	600m$	25M§Δ	1.5m	§A	40	30	5.0		.10uØ	10Ø	500mØ	25 †Δ				75p☑	PE	TO5	AØ
103	ST8191	600m$	25M§Δ	1.5m	§A	60	50	5.0		.10uØ	10Ø	500mØ	25 †Δ				75p☑	PE	TO5	AØ
104	ST8509	600m$	25M§Δ	5.9m	§J	80	60 Ø	5.0		1.0uØ	10Ø	500mØ	20 †#Δ					PL	TO5	A
105	ST8033	600m	30M§Δ			40	40 §	2.0		1.0u	5.0Ø	1.0mØ	30				45p	PL	TO5	
106	ST8034	600m	40M§Δ			40	40 §	2.0		1.0u	5.0Ø	1.0mØ	60				45p	PL	TO5	

4. SILICON PNP - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T MAX	E MP	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1	USAF508ES020P																					
		600m	40M§Δ	14m	§J		50	35	5.2	600m	500nØ	10Ø	10mØ	20 †#Δ				45pØ	DPL	TO39		Ø
2	USAF508ES021P																					
		600m	40M§Δ	14m	§J		50	35	5.2	600m	500nØ	10Ø	10mØ	20 †#Δ				45pØ	DM	TO39		Ø
3#	2SA482	600m	70M§	4.8m	§J		40	32	5.0	600m	1.0uØ	2.0Ø	150mØ	50 †				30pØ	PE	TO39		
4#	SI341P†	600m	80.M§	4.0m	§J		50	35	6.0		25nØ	5.0	1.5m	15 †Δ				40p	DPL	TO5		
5#	SI342P†	600m	80.M§	4.0m	§J		50	35	6.0		25nØ	5.0	1.5m	30 †Δ				40p	DPL	TO5		
6#	SI343P†	600m	80.M§	4.0m	§J		50	35	6.0		25nØ	5.0	1.5m	60 †Δ				40p	DPL	TO5		
7	ST8183	600m	100M§Δ	3.4m	§J		50	35	5.0	1.0	50nØ	10Ø	150mØ	20 †Δ				11pØ	PE	TO5		AØ
8	ST8184	600m	100M§Δ	3.4m	§J		50	35	5.0	1.0	50nØ	10Ø	150mØ	100 †Δ				11pØ	PE	TO5		AØ
9	TQ53	600m	100M§Δ	3.4m	§J		75	45	5.0	600m	10nØ	5.0Ø	1.0mØ	55	900nb	27	1.2	10pØ	PE	TO5		A
10	TQ53A	600m	100M§Δ	3.4m	§J		80	75	5.0	600m	10nØ	5.0Ø	1.0mØ	55	900nb	27	1.2	10pØ	PE	TO5		A
11	TQ59A†	600m	100M§Δ	3.4m	§J		60	60	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500nØb	35 Ø		10pØ	PE	TO5		A
12	TQ61A†	600m	100M§Δ	3.4m	§J		60	60	5.0	600m	20nØ	5.0Ø	1.0mØ	30 Δ	500nØb	35 Ø		10pØ	PE	TO5		A
13	TQ63A†	600m	100M§Δ	3.4m	§J		30	30	5.0	600m	100nØ	5.0Ø	1.0mØ	35	500nØb	35 Ø		10pØ	PE	TO5		A
14	ST8230	600m	150M§Δ	3.4m	§J		50	30	5.0	1	.05uØ	10Ø	15mØ	40 †Δ				11pØ	PE	TO5		AØ
15#	BC381	625m		5.0m	§S		40	25	5.0	200m	100nØ	5.0Ø	2.5mØ	60 †Δ#					P†	X55c		A
16#	BF397A	625m		5.0m	§S		90	90	6.0	100m	50nØ	10Ø	10mØ	40 †Δ#					PE†	X55c		A
17#	BF397B	625m		5.0m	§S		90	90	6.0	100m	50nØ	10Ø	10mØ	130 †Δ#					PE†	X55c		A
18#	BF398A	625m		5.0m	§S		150	150	6.0	100m	50nØ	10Ø	10mØ	30 †Δ#					PE†	X55c		A
19#	BF398B	625m		5.0m	§S		150	150	6.0	100m	50nØ	10Ø	10mØ	80 †Δ#					PE†	X55c		A
20#	BC139A	700m	40M§		§		40	30	5.0		20n	10Ø	50mØ	120 †				5.5p	PE	TO39		A
21#	BSW40†	700m*	50MΔ§	4.5m	§J		100	80	7.0	1.0	30nØ	2.0Ø	1.0 Ø	20 †#Δ				20pØ	PE	TO39		AØ
22	D29E8J1	700mØ	80M§Δ	5.6mØ	§J		50	40	5.0	750m		2.0Ø	2.0mØ	40 †Δ				15p$Ø	PE†	X28		B
23#	AT480	700m	200MΔ§	4.0m	§J		30	30	5.0	500m	200nØ	10Ø	150mØ	30 †Δ				8.0pØ	PE	TO39		AØ
24#	AT481	700m	200MΔ§	4.0m	§J		45	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO39		AØ
25#	AT482	700m	200MΔ§	4.0m	§J		30	30	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	TO39		AØ
26#	AT483	700m	200MΔ§	4.0m	§J		45	45	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	TO39		AØ
27#	AT484	700m	200MΔ§	4.0m	§J		30	30	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO39		AØ
28#	AT485	700m	200MΔ§	4.0m	§J		45	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO39		AØ
29	S18000†	700m	200M§Δ	4.0m	§J		60	50	5.0	600m	.01uØ	1.0Ø	100mØ	110 †#				8pØ	PE	TO5		AØ
30	2N4872†	700m	900M§Δ	4.0m	§J		12	12	4.5	50m	.01u§	.30Ø	10mØ	120 †#				2pØ		TO18		AØ
31#	2SA501	750m	200M§		§J		40	30	5.0	200m	1.0uØ	1.0Ø	10mØ	70 †				10p	PE	TO39		A
32#	V654	800m		4.5m	§		50	50	5.0		50n	5.0Ø	100mØ	100 †				15p	PE	TO39		A
33	2N2216	800m	40.M§	4.5m	§J		150	100	6.0	250m	.01uØ	10Ø	50mØ	73 †#				15pØ	PLΔ	TO5		
34	2N2105	800m	50.M§	4.5m	§J		50	35	6.0	600m	.02uØ	10Ø	150mØ	33 †#				35pØ	PLΔ	TO5		
35	2N2104	800m	60.M§	4.5m	§J		50	35	6.0	600m	.02uØ	10Ø	150mØ	60 †#				35pØ	PLΔ	TO5		
36#	AT460	800m	100MΔ§	4.5m	§J		40	40	5.0	1.0	200nØ	1.0Ø	50mØ	40 †Δ				20pØ	PE	TO39		AØ
37#	AT461	800m	100MΔ§	4.5m	§J		60	60	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20pØ	PE	TO39		AØ
38#	AT462	800m	100MΔ§	4.5m	§J		80	80	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20pØ	PE	TO39		AØ
39#	AT463	800m	100MΔ§	4.5m	§J		40	40	5.0	1.0	200n	1.0Ø	50mØ	100 Δ				20pØ	PE	TO39		AØ
40#	AT464	800m	100MΔ§	4.5m	§J		60	60	5.0	1.0	200n	1.0Ø	50mØ	100 Δ				20pØ	PE	TO39		AØ
41#	AT465	800m	100MΔ§	4.5m	§J		80	80	5.0	1.0	200n	1.0Ø	50mØ	100 Δ				20pØ	PE	TO39		AØ
42#	AT466	800m	100MΔ§	4.5m	§J		40	40	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20pØ	PE	TO39		AØ
43#	AT467	800m	100MΔ§	4.5m	§J		60	60	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20pØ	PE	TO39		AØ
44#	AT468	800m	100MΔ§	4.5m	§J		80	80	5.0	1.0	200n	1.0Ø	50mØ	40 Δ				20pØ	PE	TO39		AØ
45#	BFS12	800m	100M§Δ	4.5m	§J		40	40	5.0	1	.05uØ	1.0Ø	150mØ	40 †Δ#				35pØ	PE	TO39		AØ
46#	BSV83†	800m	100M§	4.0m	§J		90	80	5.0	1.0	10u	.50Ø	150mØ	70 †				25p	PE	TO39		A
47#	TX116-1	800m	150M		♦A		60		5.0	50m	1.0u	20Ø	10mØ	60 †	b	35		3.0p	ME			
48#	TX116-2	800m	150M		♦A		60		5.0	50m	1.0u	20Ø	10mØ	60 †	b	35		3.0p	ME			
49#	TX116-3	800m	150M		♦A		60		5.0	50m	1.0u	20Ø	10mØ	60 †	b	35		3.0p	ME			
50	SE8541	800m	250M§	4.5m	§J		30	30	5.0	1.0	50n	1.0Ø	150mØ	70 †#				20p$	DPL	TO39		A
51	2N2303/KVT	2 Ø	96.MΔ	11m			50	35	5.0		1.0uØ	10Ø	150mØ	75 †#Δ				45pØ	D	X30		
52	2N1132/KVT	3.0 Ø	96MΔ	16m			50	35	5.0		1.0u	10Ø	500uØ	30 †#Δ	1.0uØb	35 Ø	8.0pØ	45pØ	D	X30		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	USA55191/35†	00m	200M§△	4.0mØ	§S	25	20 §			15uØ	.70Ø	8.0mØ	20 †△				6.0pØ		
2	10G1051		130M§				15	4.5		30uØ	1.0Ø	10mØ	20 †△				4.0p	PE	X36
3	D10B1051		130M§				15	5.0		25uØ	1.0Ø	10mØ	30 †△				6.0p	PE	X36
4	D10B1055		130M§				15	3.0		30uØ	1.0Ø	10mØ	20 †△					PE	X36
5	D10G1051		130M§				15	4.5		30uØ	1.0Ø	10mØ	20 †△				4.0p	PE	X36
6	D10G1052		130M§				15	4.5		30uØ	1.0Ø	10mØ	40 †△				4.0p	PE	X36
7	RT698		180M		§J	120		5.0		5.0n	10Ø	150mØ	40 †#△				14		TO5
8	11G702		250M§				30 §			.01uØ			30 †△					PE	TO50
9	11G703		250M§				40 §			.01uØ			20 †△					PE	TO50
10	11G1052		250M§				30 §			.01uØ			30 †△					PE	u40
11	11G1053		250M§				40 §			.01uØ			20 †△					PE	u40
12	MM1755		250M§△			60	30	5.0		.01uØ	10Ø	150mØ	40 †△				8pØ		TO46
13	MM1756†		250M§△			75	40	6.0		.01uØ	10Ø	150mØ	40 †△				8pØ		TO46
14	MM1757		250M§△			60	30	5.0		.01uØ	10Ø	150mØ	100 †△				8pØ		TO46
15	10B701†		300M§			40	15			.02uØ			30 †△					PE	TO50
16	MM1758†		300M§△			75	40	6.0		.01uØ	10Ø	150mØ	100 †△				8pØ		TO46
17	10D702		500M§				15 §			.01uØ			20 †△					PE	TO50
18	10D701		600M§				15 §			.01uØ			20 †△					PE	TO50
19	10E1051†		600M§			15	6.0			.05uØ			20 †△					PE	u40
20	A1409	1.5mØ	125MΔ			150		6.0	25m	500n			50 †						TO5
21#	TF251	15m	.50M		§J	5.0			20m				50						
22#	TF252	15m	.50M		§J	10			20m				50						
23	ST3031	20m	70.M	115u	§	20		1.0		1.0u	6.0	1.0mØ	40				4.0p		TO5
24	ST1543	30m			$	6.0		1.0	5.0m		3.0	5.0u	25 †						TO18
25	TMT1543	30m	20.M§		§J	6.0				.01u		20u	15 †△						TO51
26	TMT2427	30m	50.M§		§J	40				.01u		10u	20 †△					Δ	
27	MRD100*	50m		700u	#J	80	40			100nΔ								AN†	u43 B
28	ST3042	50m	1.0M		§S	1.0													
29	ST3043	50m	1.0M		§S	1.0													
30	2N2931	50m*	20M§△	625u	♦S	5.0	5.0	3.0	50m	.01uØ	.50Ø	20mØ	30 △				12pØ		u21
31	2N2932	50m*	20M§△	625u	♦S	5.0	5.0	3.0	50m	.01uØ	.50Ø	20mØ	70 △				12pØ		u21
32	2N2933	50m*	20M§△	625u	♦S	5.0	5.0	3.0	50m	.01uØ	.50Ø	20mØ	45 △				12pØ		u21
33	2N2934	50m*	20M§△	625u	♦S	45	30	5.0	50m	.01uØ	.50	20mØ	30 △				11pØ		u21
34	2N2935	50m*	20M§△	625u	♦S	45	30	5.0	50m	.01uØ	.50	20mØ	70 △				11pØ		u21
35#	BC156A	50m*	50M§△	625u	♦J	5.0	5.0 *	5.0	50m	100n	1.0Ø	500uØ	85 △					PE†	u47a D
36#	BC156B	50m*	50M§△	625u	♦J	5.0	5.0 *	5.0	50m	100n	1.0Ø	500uØ	200 △					PE†	u47a D
37#	BC156C	50m*	50M§△	625u	♦J	5.0	5.0 *	5.0	50m	100n	1.0Ø	500uØ	470 △					PE†	u47a D
38#	BF228	50m*	50M§△	625u	♦J	100	90 §*	7.0	50m	500u	10Ø	2.0mØ	30 †△#				850f	PE†	u47a D
39#	BFY87	50m*	50M§△	625u	♦J	25	15	5.0	100m	100nØ	1.0Ø	500uØ	40 △*					PE†	u47a D
40#	BFY87A	50m*	50M§△	625u	♦J	25	15	5.0	100m	100nØ	1.0Ø	500uØ	55 △*					PE†Ø	u47a D
41	A151	50m	150M§	625u	♦J	20	20	4.0	50m	10nØ	.50Ø	200uØ	140 †	15u	20k	15	4.0p	PEØ	u40a
42	A152	50m	150M§	625u	♦J	20	20	4.0	50m	10nØ	.50Ø	200uØ	240 †	20u	30k	25	4.0p	PE	u40a
43	A153	50m	150M§	625u	♦J	20	20	4.0	50m	10nØ	.50Ø	200uØ	415 †	35u	45k	40	4.0p	PEØ	u40a
44	BC112	50m*	150M§△	625u	♦J	20	20	4.0	50m		.50Ø	.20mØ	80 †△					PE	u40a
45#	BF230	50m*	200M§	625u	♦J	30	20 *	5.0	30m	10u	10Ø	1.0mØ	67 †#				850f	PEØ†	u47a C
46#	BSW12†	50m*	200M§△	625u	♦J	40	20 *	5.0	200m	10u	1.0Ø	10mØ	40 †△				6.0pØ	PEΔ†	u47a D
47#	BF229	50m*	260M§	625u	♦J	30	20 *	5.0	30m	10u	10Ø	1.0mØ	115 †#					PEØ†	u47a C
48#	BC197	50m*	300M§	625u	♦J	45	45	5.0	100m	15nØ	5.0Ø	2.0mØ	125 △*				4.5pØ	PE	u47 D
49#	BC197A	50m*	300M§	625u	♦J	50	45 *	6.0	100m	5.0u†Ø	5.0Ø	2.0 Ø	125 △	18m	2.7k	1.5	4.5p	PE†	u47a D
50#	BC197B	50m*	300M§	625u	♦J	50	45 *	6.0	100m	5.0u†	5.0Ø	2.0 Ø	240 △	30m	4.5k	2	4.5p	PE†	u47a D
51#	BC198	50m*	300M§	625u	♦J	20	20	5.0	100m	15n	5.0Ø	2.0mØ	125 △*				4.5pØ	PE	u47 D
52#	BC198A	50m*	300M§	625u	♦J	30	20 *	5.0	100m	5.0u†Ø	5.0Ø	2.0 Ø	125 △	18m	2.7k	1.5	4.5p	PE†	u47a D
53#	BC198B	50m*	300M§	625u	♦J	30	20 *	5.0	100m	5.0u†Ø	5.0Ø	2.0 Ø	240 △	30m	4.5k	2	4.5p	PE†	u47a D
54#	BC198C	50m*	300M§	625u	♦J	30	20 *	5.0	100m	5.0u†Ø	5.0Ø	2.0 Ø	450 △	60m	8.7k	3.0	4.5p	PE†	u47a D
55#	BC199	50m*	300M§	625u	♦J	20	20	5.0	100m	15n	5.0Ø	2.0mØ	240 △*				4.5pØ	PE	u47 D
56#	BC199B	50m*	300M§	625u	♦J	30	20 *	5.0	100m	5.0u†Ø	5.0Ø	2.0 Ø	240 △	30m	4.5k	2.0	4.5p	PE†Ø	u47a D
57#	BC199C	50m*	300M§	625u	♦J	30	20 *	5.0	100m	5.0u†Ø	5.0Ø	2.0	450 △	60m	8.7k	3.0	4.5p	PE†Ø	u47a D
58#	BSW11†	50m*	400M§△	625u	♦J	25	15 *	5.0	30	10u	1.0Ø	10mØ	50 †△				3.0pØ	PEΔ†	u47a D
59#	BF227	50m*	600M§	625u	♦J	40	25	4.0	25m	10u	10Ø	3.0mØ	100 †#				230ft	PE†	u47a C
60#	FSP164	60m		593u	♦J	12	5.0	3.0		100nØ	1.0Ø	10mØ	20 †△				3.0pØ	DPL	u14 E
61#	FSP215	60m	800M§	593u	♦J	30	15	3.0		25nØ	1.0Ø	3.0mØ	40 †				2.0p	DPL	u14 E
62#	BFY23A	62m	20M§	625u	♦J	5.0	5.0	3.0	50m	15nØ	.50Ø	200uØ	200 △					PE	u21
63	2N773	65m§		1.2m	$	20		2.0	100m		10Ø	2.0mØ	11				1.5p	D	TO18
64	BC156	65m	50M§△	625u	#J	5.0	5.0	5.0	50m	.10u	1.0Ø	.50mØ	85 △				3.0p	PE	u30a
65	RT929H	70m	30M§△		♦J	45	45	5.0		.01u	5.0Ø	.01mØ	40 †△				8pØ	PEØ	u24
66	RT930H	70m	30M§△		♦J	45	45	5.0		.01u	5.0Ø	.01mØ	100 †△				8pØ	PEØ	u24
67	2N701	75m			#J	30		1.0					25				1.2		
68#	BC127	75m	30M§		♦J	25	20	5.0	20n	20n	1.0Ø	1.0mØ	125 †△	11u	7.5k	3.0	10pØ	PL	u21
69#	BFY47	75m*	50M§	1.0m	♦J	5.0	5.0	5.0	50m	15nØ	.50Ø	250uØ	50 △					PLØ	
70#	FSP289-1	75m	350M§	751u	♦J	70	50	5.0		25nØ	5.0Ø	10mØ	80 †				2.8p	DPL	u14 E
71#	FSP165	75m	370M§	751u	♦J	40	15	5.0		100nØ	1.0Ø	10mØ	30 †△				4.5p	DPE	u14 E
72#	FSP242-1	75m	400M§	751u	♦J	45	25	5.0		25nØ	5.0Ø	10mØ	80 †				4.2p	DPL	u14 E
73	2N774	80m§		1.2m	$	20		2.0	100m		10Ø	2.0mØ	20				1.5p	D	TO18
74#	BFX75	80m	230M§			30		5.0	30 #			1.0mØ	280 †						
75#	BFX76	80m	230M§			30		5.0	30 #			1.0mØ	110 †						
76	D26B1	90m		1.2m	♦S	40	15	4.5		400nØ	1.0Ø	10mØ	20 †△				4.0pØ	PE	u40 D
77	D26B2	90m		1.2m	♦S	40	15	4.5		400nØ	1.0Ø	10mØ	40 †△				4.0pØ	PE	u40 D
78#	2SC695	100m			§J	20	15	5.0	30m	.10uØ	3.0Ø	.10mØ	150 †					PE	u23a C
79	A1518	100m				15	3.0	3.0		.01u	5.0	.10m	65 †					PE	X31b
80	A1519	100m				15	3.0	3.0		.01u	5.0	.10m	100 †					PE	X31b
81	A1520	100m				15	3.0	3.0		.01u	5.0	.10m	165 †					PE	X31b
82	A1521	100m				15	3.0	3.0		.01u	5.0	.10m	240 †					PE	X31b
83#	FSP42	100m		1.0m	♦J	75	30	7.0		25nØ	1.0Ø	10mØ	70 †				18p	DPLΔ	u14 E
84#	FSP42-1	100m		1.0m	♦J	75	30	7.0		25nØ	1.0Ø	10mØ	120 †				18p	DPLΔ	u14 E
85#	FSP166	100m		1.0m	♦J	100	60	7.0		25nØ	1.0Ø	10mØ	70 †				13p	DPL	u14 E
86#	FSP166-1	100m		1.0m	♦J	100	60	7.0		25nØ	1.0Ø	10mØ	120 †				13p	DPL	u14 E
87	NS1510	100m			§		20	8.0			1.0Ø	.10mØ	75 †				6pØ		TO18 AØ
88	NS3000Ø	100m			§J	10		12	10m	10u									RO38a
89	NS3001Ø	100m			§J	10		12	10m	10u									RO38a
90	NS3050Ø	100m			§J	10		12	10m	10u									RO38a
91	NS3051Ø	100m			§J	10		12	10m	10u									RO38a
92	NS3052Ø	100m			§J	10		12	10m	10u									RO38a
93	NS3053Ø	100m			§J	10		12	10m	10u									RO38a
94	PMT011	100m		1.3m	$S	30	25 §	4.0		10uØ	10Ø	10mØ	3.0				20p	ME	u7
95	PMT012	100m		1.3m	$S	30	25 §	4.0		10uØ	10Ø	10mØ	3.5				20p	ME	u7
96	PMT013	100m		1.3m	$S	60	40 §	5.0		10uØ	10Ø	10mØ	5.0				20p	ME	u7
97	PMT014	100m			§J	60	40 §	5.0		1.0uØ	10Ø	150m	2.5				20p		u7
98	PMT015	100m		769u	$S	80	50 §	8.0		.50uØ	10Ø	10mØ	5.0				20p	ME	u7
99	PMT016	100m		1.3m	§J	25	20 §	5.0		.50uØ	3.0Ø	10mØ	4.0				5.0p	ME	u7
100	PMT018	100m		1.3m	$S	40	30 §	5.0		1.0uØ	10Ø	10mØ	4.0				20p	ME	u7
101	PMT019	100m		1.3m	$S	40	30 §	5.0		1.0uØ	10Ø	10mØ	6.0				20p	ME	u7
102	PMT020	100m		769u	$S	45	30 §	5.0		2.0uØ	5.0Ø	1.0mØ	37				30pØ	ME	u7
103	PMT024	100m		1.3m	$S	30	20 §	5.0		1.0u	10Ø	150mØ	20 #△				45pØ	MEΔ	u7
104	PMT111	100m		769u	$S	30	50 §	4.0		10uØ	10Ø	10mØ	3.0				20p	ME	u6
105	PMT112	100m		769u	$S	30	25 §	4.0		10uØ	10Ø	10mØ	3.5				20p	ME	u6
106	PMT113	100m		769u	$S	60	40 §	5.0		1.0uØ	10Ø	10mØ	4.0				20p	ME	u6
107	PMT114	100m		769u	$S	60		5.0		1.0uØ	10Ø	10mØ	5.0				20p	ME	u6
108	PMT116	100m		769u	$S	25	20 §	3.0		.50uØ	10Ø	10mØ	4.0				5.0p	MEΔ	u6
109	PMT118	100m		769u	$S	40	30 §	5.0		1.0uØ	10Ø	10mØ	4.0				20p	ME	u6
110	PMT119	100m		769u	$S	40	30 §	5.0		1.0uØ	10Ø	10mØ	6.0				20p	ME	u6

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E A D O E
1	PMT120	100m		769u	$S		45	30 §	5.0		2.0uØ	10Ø	10mØ	5.0				30p☑	ME	u6		
2#	2S741	100m	2.0M	1.0m	$J		30	30 §	1.0	25m	1.0u	5.0Ø	3.0mØ	5.0 †△				12p	G	TO5		
3#	2S742	100m	2.0M	1.0m	$J		75	75 §	1.0	25m	1.0u	5.0Ø	3.0mØ	5.0 †△				12p	G	TO5		
4#	2S743	100m	2.0M	1.0m	$J		115	115 §	1.0	25m	1.0u	5.0Ø	3.0mØ	5.0 †△				12p	G	TO5		
5#	2S744	100m	2.0M	1.0m	$J		30	30 §	1.0	25m	1.0u	5.0Ø	3.0mØ	20 †△				12p	G	TO5		
6#	2S745	100m	2.0M	1.0m	$J		75	75 §	1.0	25m	1.0u	5.0Ø	3.0mØ	20 †△				12p	G	TO5		
7#	2S746	100m	2.0M	1.0m	$J		115	115 §	1.0	25m	1.0u	5.0Ø	3.0mØ	20 †△				12p	G	TO5		
8	RD316	100m	2.0M		$		20		1.0	20m	20u	5.0	1.0m	9.0					G			
9	2N1200	100m	4.3MØ	769u	$S		20	15	2.0	100m	.70uØ	10Ø	1.5mØ	7.0 †△				3.5p☑	†	TO9		
10	A1460	100m	10M§△		$J			15	5.0		.01u§	5.0Ø	.10mØ	600 *†☑				8p☑	PL	X31a		
11	2N1201	100m	12.MØ	769u	$S		20	15	2.0	100m	.70uØ	10Ø	1.5mØ	7.0 †△				3.5p☑	†	TO9		
12	JAN2N1200	100m	25M§△	7.6m	$S		20	14 Ø	1.0		5.0u	10Ø	2.0m	9.0 △				3.5p☑		R49		
13	2N930/TNT	100m	30M§△	555u			45	45	5.0	30m	10n	5.0Ø	1.0mØ	150 △	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	u17		
14	JAN2N1201	100m	30M§△	7.6m	$S		20	14 Ø	1.0		5.0u	10Ø	2.0m	9.0 △				3.5p☑	†	R49		
15	10H551	100m	30M§△	1.0m	♦J		45	45	5.0		10nØ	5.0Ø	1.0mØ	60 △	1.0u☑b	35 ☑		8.0p☑	PL	ZA7		
16	10H553	100m	30M§△	1.0m	♦J		45	45	5.0		10nØ	5.0Ø	1.0mØ	150 △	1.0u☑b	35 ☑		8.0p☑	PL	ZA7		
17	10H1051	100m	30M§△	1.0m	♦J		45	45	5.0		10n	5.0Ø	1.0mØ	6.0 △	1.0u☑b	35 ☑		8.0p☑	PL	X36b		
18	10H1053	100m	30M§△	1.0m	♦J		45	45	5.0		10n	5.0Ø	1.0mØ	150 △	1.0u☑b	35 ☑		8.0p☑	PL	X36b		
19#	BC128	100m	30.M§		♦J		25	20	5.0		.10u	1.0Ø	1.0mØ	150 †△				40p☑	PL	X16		
20	D10H551-2,-3	100m	30M§△	1.0m	♦J		45	45	5.0		10n	5.0Ø	1.0mØ	60 △	1.0u☑b	35 ☑		8.0p☑	PL	ZA7		
21	D10H553-2,-3	100m	30M§△	1.0m	♦J		45	45	5.0		10n	5.0	1.0m	150 △	1.0n☑b	35 ☑		8.0p☑	PL	ZA7		
22#	MT4102,A	100m	30M§△	8.0m	$J		60	45	5.0	30m	10nØ	5.0Ø	1.0mØ	200 †△#	1.0u☑b	32 ☑	6.0 ☑	4.0p☑	PE			
23	2N841/TNT	100m	40M§	555u			45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	140	350nb	40	2.0	8.0p	ME†	u17		
24	11B551	100m	40M§△	1.0m			60	28	5.0		.50u	10Ø	10mØ	20 †△						X10		
25	D11B551-2,-3	100m	40M§△	1.0m	♦J		60	28	5.0		500nØ	10Ø	10mØ	20 †△#					PE	ZA7		
26	D11B551-2,3	100m	40M§△	1.0m	♦J		60	28	5.0		.50uØ	10Ø	10mØ	20 †△#					PE	ZA7		
27	TNT839	100m	45M§		§J		45		2.0		1.0u			20 △				8.0p	ME	u17		
28	TNT840	100m	45M§		§J		45		2.0		1.0u			40 △				8.0p	ME	u17		
29	TNT842	100m	45M§		§J		45		2.0		1.0u			20 †△				6.0p	ME	u17		
30	11B552	100m	50M§△	1.0m			60	28	5.0		.50u	10Ø	10mØ	40 †△						X10		
31	11B556	100m	50M§△	1.0m			100	80	7.0		.02u	10Ø	10mØ	40 †△				15p		X10		
32	11B560	100m	50M§△	1.0m			100	60	5.0		.50u	10Ø	10mØ	40 †△						X10		
33	11C551	100m	50M§△	1.0m			60	40	5.0		.02u	10Ø	10mØ	100 †△				20p		X10		
34	11C553	100m	50M§△	1.0m			60	40	7.0		.02u	10Ø	10mØ	40 †△				20p		X10		
35	11C557	100m	50M§△	1.0m			45	25	5.0		.05u	10Ø	10mØ	30 †△				20p		X10		
36	11C1051	100m	50M§△	1.0m	♦J		60	40	5.0		25uØ	10Ø	1.0mØ	75 †△				20p☑	PE	X36		
37	11C1053	100m	50M§△	1.0m	♦J		60	40	7.0		25uØ	10Ø	1.0mØ	30 †△				20p☑	PE	X36		
38	11C1057	100m	50M§△	1.0m	♦J		45	25	5.0		.05uØ	10Ø	10mØ	30 †#△				20p☑	PE	X36		
39#	BC111	100m	50M△	666u	§J		25		4.0	50m			10mØ	80 †△					PL	u33		
40	D11B552-2,3	100m	50M§△	1.0m	♦J		60	28	5.0		.50uØ	10Ø	10mØ	40 †△#					PE	ZA7		
41	D11B556-2,-3	100m	50M§△	1.0m	♦J		100	80	7.0		25nØ	10Ø	10mØ	40 †#				15p☑		ZA7		
42	D11B560-2,3	100m	50M§△	1.0m	♦J		100	60	5.0		.50uØ	10Ø	10mØ	40 †#					PE	ZA7		
43	D11C551-2,-3	100m	50M§△	1.0m	♦J		60	40	5.0		25nØ	10Ø	10mØ	100 †#				20p☑	PE	ZA7		
44	D11C553-2,-3	100m	50M§△	1.0m	♦J		60	40	7.0		25nØ	10Ø	10mØ	40 †#				20p☑	PE	ZA7		
45	D11C557-2,-3	100m	50M§△	1.0m	♦J		45	25	5.0		50nØ	10Ø	10mØ	30 †△				20p☑	PE	ZA7		
46	D11C1051	100m	50M§△	1.0m	♦J		60	40	5.0		25nØ	10Ø	10mØ	100 †△#				20p☑	PE	X36		
47	D11C1053	100m	50M§△	1.0m	♦J		60	40	7.0		25nØ	10Ø	10mØ	40 †△#				20p☑	PE	X36		
48	D11C1057	100m	50M§△	1.0m	♦J		45	25	5.0		.05uØ	10Ø	10mØ	30 †△#				20p☑	PE	X36		
49#	2SC183	100m	60M§△		♦J		20	18 §	5.0	30m	.10uØ	3.0Ø	.50mØ	75 †	8.5u	1.8k	.50	1.6p	PE	u23a	C	
50	11B554	100m	60M§△	1.0m			60	28	7.0		.02u	10Ø	10mØ	40 †△				25p		X10		
51	11B555	100m	60M§△	1.0m			60	28	7.0		.02u	10Ø	10mØ	100 †△				25p		X10		
52	D11B554-2,3	100m	60M§△	1.0m	♦J		60	28	7.0		.25uØ	10Ø	10mØ	40 †△#				25p☑	†	ZA7		
53	D11B555-2,-3	100m	60M§△	1.0m	♦J		60	28	7.0		25nØ	10Ø	10mØ	100 †#				25p☑	†	ZA7		
54	TNT841	100m	65.M§		§J		45		2.0		1.0u			80 △				8.0p	ME	u17		
55	TNT843	100m	65.M§		§J		45		2.0		1.0u			45 †△				6.0p	ME	u17		
56	ST3030	100m	70.M	769u	$		15		1.0		50u							3.0p	G△	TO5		
57	2N1893/TNT	100m	80.M△	556u	§J		120	80	7.0		.01uØ	10Ø	150mØ	80 #†	11u	2.8k	3.5	15p☑	PL△	u17		
58#	2SC184	100m	100M§△		♦J		20	18 §	5.0	30m	.10uØ	3.0Ø	.50mØ	75 †	8.5u	1.8k	.50	1.6p	PE	u23a	C	
59	NS1500	100m	100M§△	667u	§A			20	8.0			1.0Ø	.10mØ	75 †				6p☑	△	TO18		
60	NS3039Ø	100m	100M§△	6.6m	§		20	18	18											L15a	Ø	
61	NS3040Ø	100m	100M§△	6.6m	§		20	18	18											L15a	Ø	
62	NS3041Ø	100m	100M§△	6.6m	§		20	18	18											L15a	Ø	
63	2N1613/TNT	100m	130M	556u			75	50 §	7.0		.01uØ	10Ø	150mØ	80 †#	12.u	2.2k	3.6	25p☑	PL†△	u17		
64	11B1052	100m	130M§						5.0		25uØ	10Ø	10mØ	40 †△					PL△	X36		
65	D11B1052	100m	130M§						5.0		25uØ	10Ø	10mØ	40 †△					PL△	X36		
66	D11B1055	100m	130M§						7.0		15uØ	10Ø	10mØ	100 †△					PL△	X36		
67#	2SC185	100m	150M§△		♦J		20	18 §	5.0	30m	.10uØ	3.0Ø	.50mØ	75 †				1.6p	PE	u23a	C	
68#	2SC469	100m	150M§△		♦J		20	18 §	5.0	30m	.10uØ	3.0Ø	.50mØ	90 †				1.6p	PE	u23a	C	
69	2N1711/TNT	100m	160M	556u			75	50 §	7.0		.01uØ	10Ø	150mØ	130 †	23.u	4.4k	7.3	25p☑	PLØ△	u17		
70	PMT025	100mØ	160M	10m	$J		75	50 §	7.0		10uØ	10Ø	5.0mØ	93				25p☑	ME†△	u7		
71	PMT125	100mØ	160M	1.7m	$J		75	50 §	7.0		10uØ	10Ø	5.0mØ	93				25p☑	ME†△	u6		
72	PMT225	100mØ	160M	1.7m	$J		75	50 §	7.0		10uØ	10Ø	5.0mØ	93				25p☑	ME†△	TO51		
73#	2SC401	100m	170M§		♦J		50	25	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				2.5p	PE	u37		
74#	2SC402	100m	170M§		♦J		50	25	3.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				2.5p	PE	u37		
75#	2SC403	100m	170M§		♦J		50	25	3.0	100m	.20uØ	3.0Ø	1.0mØ	60 †				2.2p	PE	u37		
76#	2SC404	100m	170M§		♦J		50	25	3.0	50m	.20uØ	3.0Ø	1.0mØ	90 †				2.2p	PE	u37		
77#	2SC266	100m	200M§△		$J		30	20	5.0	30m	100nØ	3.0Ø	500uØ	60	250nb	26	4.0	35p☑	PE	u23a	C	
78#	2SC641H†	100m	200M§△	1.0m	♦J		40	15	5.0	100m	.25uØ	1.0Ø	10mØ	35 †△*	3.1u	36k	1.5	4.5p	E†	MM12c	B	
79#	2SC894	100m	200M§	1.1m	§J		25	13	6.0	100m	.20u	3.0Ø	1.0mØ	100 †				3.5p☑	D			
80	10B553	100m	200M§△	1.0m			40	20 §	5.0		.50u	1.0Ø	10mØ	30 †△				6.0p		X10		
81	10B555	100m	200M§△	1.0m			25	20 §	3.0		.50u	1.0Ø	10mØ	20 †△				6.0p		X10		
82	10B556	100m	200M§△	1.0m			25	20 §	5.0		.50u	1.0Ø	10mØ	20 †△				6.0p		X10		
83	10C573	100m	200M§△	1.0m			45	45	6.0		.20u	5.0Ø	1.0m	36 △				8.0p		X10		
84	10C574	100m	200M§△	1.0m			45	45	6.0		.20u	5.0Ø	1.0m	76 △				8.0p		X10		
85	A1462†	100m	200M§△	833u	$J		20	9.0	5.0	50m	400n§†	.35Ø	10mØ	30 †△					PE△	X56		
86#	BSY32†	100m	200M§△	1.3m	#J		20	15	6.0	100m	10u	2.0Ø	10mØ	32 †				4.0p	PE	u18		
87#	BSY33†	100m	200M§△	1.3m	#J		20	15	6.0	100m	10u	2.0Ø	10mØ	55 †				4.0p	PE	u18		
88#	BSY47†	100m	200M§△	1.3m	#J		20	15	6.0	100m	10u	2.0Ø	10mØ	32 †				4.0p	PE	u19		
89	D10B553-2,3†	100m	200M§△	1.0m	♦J		40	15	5.0		.50uØ	1.0Ø	10mØ	30 †△#				6p☑	PE	ZA7		
90	D10B555-2,3†	100m	200M§△	1.0m	♦J		25	20 §	3.0		.50uØ	1.0Ø	10mØ	20 †△#				6p☑	PE	ZA7		
91	D10B556-2,-3	100m	200M§△	1.0m	♦J		25	15	5.0		500nØ	1.0Ø	10mØ	20 †△#				6.0p☑	PE	ZA7		
92	D10C573-2,-3	100m	200M§△	1.0m	♦J		45	45			300nØ	5.0Ø	1.0m	36 △	1.0u☑b	80	10	8.0p☑	PL	ZA7		
93	D10C574-2,-3	100m	200M§△	1.0m	♦J		45	45			300nØ	5.0Ø	1.0m	76 △	1.0u☑b	80	10	8.0p☑	PL	ZA7		
94	PMT1767M	100mØ	200M	7.7m	$J		25	15	5.0	200m	.50uØ	3.0Ø	10mØ	5.0				3.5p	ME	u7		
95	PMT1767P	100mØ	200M	7.7m	$		25	15	5.0	200m	.50uØ	3.0Ø	10mØ	5.0				3.5p	ME	u7		
96	PMT1767T	100mØ	200M	7.7m	$J		25	15	5.0	200m	.50uØ	3.0Ø	10mØ	5.0				3.5p	ME	u7		
97	PMT1787P	100mØ	200M	7.7m	$		25		5.0	200m	.50u	10Ø	.10mØ	40 †△				5.0p	PL	u7		
98	10B551	100m	300M§△	1.0m			40	20 §	5.0		.05u	1.0Ø	10mØ	30 †△				6.0p		X10		
99#	BSY36†	100m	300M§△	1.3m	#J		15	12	3.0	100m	10u	2.0Ø	10mØ	34 †				3.5p	PE	u18		
100#	BSY37†	100m	300M§△	1.3m	#J		15	12	3.0	100m	10u	2.0Ø	10mØ	34 †				3.5p	PE	u18		
101#	BSY50†	100m	300M§△	1.3m	#J		15	12	3.0	100m	10u	2.0Ø	10mØ	34 †				3.5p	PE	u19		
102	D10B551-2,3	100m	300M§△	1.0m	♦J		40	15	5.0		.05uØ	1.0Ø	10mØ	30 †△#				6p☑	PE	ZA7		
103	2N706/TNT	100m	320M△	556u	§J		25	20 §	3.0		.05uØ	1.0Ø	10mØ	20 †#△				6p☑	D	u17		
104	2N706A/TNT	100m	320M△	556u	§J		25	15	5.0		.05uØ	1.0Ø	10mØ	20				6p☑	D	u17		
105#	2SC429	100m	380M§		§J		25	12	2.0	10m	1.0uØ	6.0Ø	1.0m	27	5.5u	800	.85	2p☑	PE	u23	C	
106	2N2218/TNT	100m	400M§	556u	§J		60	30	5.0		.01uØ	10Ø	150mØ	80 †				4.0p	PLE	u17		
107	2N2219/TNT	100m	400M§	556u	§J		60	30	5.0		.01uØ	10Ø	150mØ	150 †				4.0p	PL	u17		
108	PMT021	100mØ	400M	10m	$J		20	15	5.0	220m	.50uØ	10Ø	10mØ	2.0 △				7p☑	ME	u7		
109	PMT022	100mØ	400M	10m	$J		50	20	5.0	220m	.50uØ	3.0Ø	10mØ	2.0 △				5p☑	ME	u7		
110	PMT121	100mØ	400M	1.7m	$J		20	15	5.0	220m	.50uØ	10Ø	10mØ	2.0 △				7p☑	ME	u6		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	TYPE No.	MAX. COLL. DISS. @25°C (W)	fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	PMT122	100mØ	400M	1.7m	$J	50	20	5.0	220m	.50uØ	3.0Ø	10mØ	2.0 Δ				5pØ	ME	u6
2	PMT222	100mØ	400M	1.7m	$J	50	20	5.0	220m	.50uØ	3.0Ø	10mØ	2.0 Δ				5pØ	ME	TO51
3#	2SC430	100m	420M§		$J	25	12	2.0	10m	1.0uØ	6.0Ø	1.0m	46	6.0u	1.3k	.85	2pØ	PE	u23 C
4	2N708/TNT	100m	480MΔ	555u	$J	40	15	5.0		25nØ	1.0Ø	10mØ	30 †Δ#				6.0pØ	PL	u17
5#	2SC286	100m	600M§Δ		$J	20	12	2.0	10m	1.0uØ	6.0Ø	2.0m	70				1.0pØ	PE	u23
6#	2SC287	100m	600M§Δ		$J	20	12	2.0	10m	1.0uØ	6.0Ø	2.0m	70				1pØ	PE	u23 C
7	10D556-2,3	100m	600M§Δ	1.0m	♦J	25	15	3.0		.10uØ	1.0Ø	3.0mØ	20 †Δ				1.7pØ	PEØ	ZA7
8	PMT023†	100m	750M	10m	$J	25	20 §	3.0		.50u	1.0Ø	10mØ	20 #Δ				5.0p	ME	u7
9	PMT216†	100mØ	750M	1.3m	$J	25	20 §	3.0		.50u	1.0Ø	10mØ	20 #Δ				5.0p	ME	TO51
10	2N709/TNT	100m	800M§	556u	$J	15	6.0	4.0		.05uØ	.50Ø	10mØ	55 †				3pØ	PL	u17
11	2N2369/TNT	100m	800MΔ	556u		40	15	4.5	500m	.40uØ	1.0Ø	10m	80 †				4pØ	PE	u17
12	2N2594/TNT	100m	800MΔ	556u		40	15	4.5	500m	.40uØ	1.0Ø	10m	80 †				4pØ	PE	u17
13#	2SC271	100m	800M§Δ		$J	25	12	3.0	20m	1.0uØ	6.0Ø	2.0m	70				1pØ	PE	u23a C
14#	2SC288	100m	850M§Δ		$J	30	12	2.0	10m	1.0uØ	6.0Ø	2.0m	70				1pØ	PE	u23a C
15#	Q2	100m	900M§	1.0m	♦J	30	25	4.0	10m	100nØ	6.0Ø	2.0mØ	40 †Δ				1.8pØ	E	
16#	Q3	100m	900M§	1.0m	♦J	30	25	4.0	10m	100nØ	6.0Ø	2.0mØ	60 †Δ				1.8pØ	E	
17#	Q4	100m	900M§	1.0m	♦J	30	25	4.0	10m	100nØ	6.0Ø	2.0mØ	90 †Δ				1.8pØ	E	
18#	Q5	100m	900M§	1.0m	♦J	30	25	4.0	10m	100nØ	6.0Ø	2.0mØ	135 †Δ				1.8pØ	E	
19	2N2784/TNT	100m	1.0G§	556u	$J	15	6.0	4.0	500m	5nØ	.50Ø	10mØ	120 †Ø				3pØ	PE	u17
20#	2SC289	100m	1.1G§		$J	25	12	3.0	10m	1.0uØ	6.0Ø	2.0m	70				1pØ	PE	u23 C
21	2N3633/TNT	100m	1.3G§	556u		15	6.0	4.0	50m	5nØ	.50Ø	10mØ	150 †Ø				2.5pØ	PE	u17
22#	BC155A	105m*	50M§Δ	1.3m	♦J	5.0	5.0 *	5.0	50m	100n	1.0Ø	500uØ	85 Δ					PE†	u30b D
23#	BC155B	105m*	50M§Δ	1.3m	♦J	5.0	5.0 *	5.0	50m	100n	1.0Ø	500uØ	200 Δ					PE†	u30b
24#	BC155C	105m*	50M§Δ	1.3m	♦J	5.0	5.0 *	5.0	50m	100n	1.0Ø	500uØ	470 Δ					PE†	u30b
25#	BFY69	105m*	50M§Δ	1.3m	♦J	25	15	5.0		100nØ	1.0Ø	500uØ	40 Δ*					PE†	u30b D
26#	BFY69A	105m*	50M§Δ	1.3m	♦J	25	15	5.0		100nØ	1.0Ø	500uØ	55 Δ*					PE†Ø	u30b D
27#	BC194†	105m*	250M§Δ	1.3m	♦J	40	25 *	5.0	800m	10u	1.0Ø	150mØ	20 †Δ#				8.0p	PE†	u30b D
28	2N776	110m§		1.2m	$	20		2.0	100m		10Ø	2.0mØ	11				1.5p	D	TO18
29#	BFS18CA	110m	200M§	1.1m	♦J	30	20	5.0	30m	100nØ	10Ø	1.0mØ	125 †Ø				1.0p	PEØ	u56a A
30#	BFS19CB	110m	260M§	1.1m	♦J	30	20	5.0	30m	100nØ	10Ø	1.0mØ	225 †Ø				1.0p	PEØ	u56a A
31#	BF219	120m#	260M§	2.7m	#J	40	35	4.0	20m	500nØ	7.0Ø	1.0mØ	180				1.1p†	PE	TO98 B
32#	BF220	120m#	260M§	2.7m	#J	40	35	4.0	20m	500nØ	7.0Ø	1.0mØ	180				1.1p†	PE	TO98 B
33#	2SC705	120m	800M§		♦J	15		3.0	30m	1.0u	6.0Ø	1.0mØ	80 †				1.1p	PE	R145 D
34	3N26	125m			♦	30			10m									G$	
35	3N27	125m			♦	30			10m									G$	
36	4D24	125m		1.2m	♦J	15	15	1.0	25m	1.0u	5.0Ø	10mØ	33 †#	200nb	50	2.0	4.0pØ	GDΔ	TO5 A
37	4D25	125m		1.2m	♦J	15	15	1.0	25m	1.0u	5.0Ø	10mØ	88 †#	200nb	50	2.0	4.0pØ	GDΔ	TO5 A
38	4D26	125m		1.2m	♦J	15	15	1.0	25m	1.0u	5.0Ø	10mØ	133 †#	200nb	50	2.0	4.0pØ	GDΔ	TO5 A
39	925	125m			$J	30			10m	.20u							1.8p	D$	
40	926	125m			$J	30			10m	.20u							1.8p	D$	
41	D4D24	125m		1.2m	♦J	15	15	1.0	25m	1.0u	5.0Ø	10mØ	33 †#	200nb	50	2.0	4.0pØ	GDΔ	TO5
42	D4D25	125m		1.2m	♦J	15	15	1.0	25m	1.0u	5.0Ø	10mØ	88 †#	200nb	50	2.0	4.0pØ	GDΔ	TO5
43	D4D26	125m		1.2m	♦J	15	15	1.0	25m	1.0u	5.0Ø	10mØ	133 †#	200nb	50	2.0	4.0pØ	GDΔ	TO5
44#	2S005	125m	30 Δ	1.0m	$J	40		1.0	20m	1.0uØ	20	1.0m	100	200nb	50	2.0	1.6p	GD	TO5
45	3N32	125m	4.3M		$J	30			10m				40					D$	
46	2N1103†	125m	10MΔ	1.0m	$S	45	35	1.0	20m	1.0uØ	20	1.0m	20 Δ	1.0uØb	80 Ø	20 Ø	3.0pØ		TO5 A
47#	10T2	125m	10.M	1.1m	$J	30			25m			1.0mØ	31 †						
48#	11T2	125m	10.M	1.1m	$J	30			25m			1.0mØ	63 †						
49#	12T2	125m	10.M	1.1m	$J	30			25m			1.0mØ	100 †						
50	3N33	125m	12.M		$J	30			10m									D$	
51#	2S014	125m	20M	1.0m	$J	40		1.0	20m	1.0uØ	20	1.0m	65	200nb	50	3.0	1.6p	GD	R30
52	NS075	125m	20M	1.0m	$J	45		1.0	20m		20	1.0m	65	200nb	40	2.0	1.2p	ME	
53	ST1694	125m	20.M	7.7m	♦J	40	20	1.0	20m	2.0uØ	5.0Ø	10mØ	40 †Δ				4pØ		TO5
54#	2SC157	125m	25.M		§	20		1.0	20m	1.0u	6.0	2.0m	30				3.0p	ME	TO5
55	NS078	125m	30M	1.0m	$J	45		1.0	20m		20	1.0m	99	200nb	40	3.0	1.2p	ME	
56#	2SC158	125m	40.M		§	20		1.0	20m	1.0u	6.0	2.0m	40				3.0p	ME	TO5
57#	2SC159	125m	60.M		§	20		1.0	20m	1.0u	6.0	2.0m	50				3.0p	ME	TO5
58	3N35A$	125m	70M§Δ	1.0m	$S	30	30	1.0	20m	.40uØ	20Ø	1.3m	10 Δ					†	TO12
59#	2SC160	125m	100M		§	20		1.0	20m	1.0u	6.0	2.0m	60				3.0p	ME	TO5
60#	3S002$	125m	100M	1.0m	$J	30		1.0	20m	10u	20Ø	1.0m	25				1.5p	GD	TO12
61#	3S004$	125m	150M	1.0m	$J	30		1.0	20m	10u	20Ø	1.0m	25				1.5p	GD†	TO12
62#	BSW33†	125m*	300M§	1.6m	♦J	40	32	5.0	100m	70nØ	0.0	10m	60 †Δ				3.0p$	PE†	MM13 F
63#	BSW34†	125m*	300M§	1.6m	♦J	50	45	5.0	100m	70nØ	0.0	10m	60 †Δ				3.0p$	PE†	MM13 F
64#	BSW35†	125m*	300M§	1.6m	♦J	60	60	5.0	100m	70nØ	0.0	10m	50 †Δ				3.0p$	PE†	MM13 F
65#	ST63†	125m	300M§Δ		$S	15	12	6.5	50m	10u	.35Ø	5.0mØ	40 †#Δ				5.0pØ	PEΔ	TO18 Ø
66#	BFS57P	125mØ	1.7G	1.0mØ	$A	25	13	3.0	50m	10nØ	6.0Ø	5.0mØ	20 Δ				1.0p$Ø	PE	u17c E
67	K5202	125m	1.8G§Δ	1.0m	$J	25	12	2.5		50nØ	1.0Ø	3.0mØ	20 †Δ				1.0pØ	PEØ	TO50 F
68#	BFS58P	125mØ	2.4GØ	1.0mØ	$A	25	13	3.0	50m	20nØ	6.0Ø	5.0mØ	20 Δ				1.0p$Ø	PE	u17c E
69	2N777	130m§		1.2m	$	20		2.0	100m		10Ø	2.0mØ	20				1.5p	D	TO18
70	BC155	130m	50M§Δ	1.3m	#J	5.0	5.0	5.0	50m	.10u	1.0Ø	.50mØ	85 Δ				8.0p	PE	u30
71#	BC129A	135m	85M§	1.0	§J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	125 Δ	18u	3.0k	1.0	2.5p$	PE	TO18 A
72#	BC129B	135m	85M§	1.0	§J	50	45	6.0	100m	15uØ†	5.0Ø	2.0mØ	240 Δ	30u	5.0k	1.3	2.5p$	PE	TO18 A
73#	BC130A	135m	85M§	1.0	§J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	125 Δ	18u	3.0k	1.0	2.5p$	PE	TO18 A
74#	BC130B	135m	85M§	1.0m	§J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	240 Δ	30u	5.0k	1.3	2.5p$	PE	TO18 A
75#	BC130C	135m	85M§	1.0m	§J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	470 Δ	50u	7.5k	2.3	2.5p$	PE	TO18 A
76#	BC131B	135m	85M§	1.0	§J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	240 Δ	30u	5.0k	1.3	2.5p$	PEØ	TO18 A
77#	BC131C	135m	85M§	1.0m	§J	30	20	5.0	100m	15uØ†	5.0Ø	2.0mØ	470 Δ	50u	7.5k	2.3	2.5p$	PEØ	TO18 A
78#	64EPA	140m#	50M§Δ	2.0m	♦J	45	45	5.0	30m	.01u	5.0Ø	1.0mØ	200	14u	5.0k	2.5	8pØ	PE†	u46 A
79#	64EPB	140m#	50M§Δ	2.0m	♦J	45	45	5.0	30m	.01u	5.0Ø	1.0mØ	350	25u	10k	5.5	8pØ	PE†	u46 A
80#	103EP	140m	1.3G§Δ	1.4m	♦J	30	15	2.5	50m	10n	1.0Ø	2.0mØ	150 †Ø					PE	
81	A451	145m*	190M§	1.1m	§J	32	32	4.0	30m		10	1.0m	80					PLØ	TO72 G
82#	BF115Δ	145m*	190M§	1.1m	§J	32	32	4.0	30m		10	1.0m	80					PLØ	TO18
83	A418	145m	200M§	1.1m	§J	30	20	5.0	30m		10Ø	1.0mØ	35 †Δ				.65p†	PE	TO72 JØ
84	A419	145m	200M§	1.1m	§J	30	20	5.0	30m		10Ø	1.0mØ	35 †Δ				.65p†	PE	TO72 JØ
85	A420	145m	200M§	1.1m	§J	30	20	5.0	30m		10Ø	1.0mØ	35 †Δ				.65p†	PEØ	TO72 JØ
86	A455	145m	220M§	1.1m	§J	30	20	5.0	30m		10Ø	1.0mØ	34 †Δ				1.6p	PEØ	TO72
87	A417	145m	250M§	1.1m	§J	30	20	5.0	30m		10Ø	1.0mØ	35 †Δ				.65p†	PEØ	TO72 JØ
88	A454	145m	300M§	1.1m	§J	30	20	5.0	30m		10Ø	1.0mØ	75 †Δ					PEØ	TO72
89	2N775	150m§		1.2m	$	20		2.0	100m		10Ø	2.0mØ	50				1.5p	D	TO18
90	2N1528	150m		1.0m	§A	25	25 Ø	2.0	20m	1.0uØ	6.0Ø	1.0m	10 Δ				8.0pØ		TO5 A
91#	2SC640	150m			$J	30	25	5.0	100m	.10u	3.0Ø	.50mØ	300 †					PE	u23a C
92	3N56$	150m			$S	18	15	3.0	30m										TO12
93	3N57$	150m			#S	18	15	3.0	30m										TO12
94	D4D20†	150m		1.2m	$J	40	24	1.5	25m	1.0uØ	5.0Ø	10mØ	50 †Ø	200nb	50	2.0	4.0pØ	GD	R133 A
95	D4D21†	150m		1.2m	$J	40	24	1.5	25m	1.0uØ	5.0Ø	10mØ	135 †Ø	200nb	50	2.0	4.0pØ	GD	R133 A
96	D4D22†	150m		1.2m	$J	40	24	1.5	25m	1.0uØ	5.0Ø	10mØ	250 †Ø	200nb	50	2.0	4.0pØ	GD	R133 A
97	J460	150m				30			25m		2.0Ø	6.0mØ	3.0 †Δ					G	OV9
98	J461	150m				30			25m		2.0Ø	6.0mØ	7.0 †Δ					G	OV9
99	J462	150m				30			25m		2.0Ø	6.0mØ	14 †Δ					G	OV9
100	J463	150m				30			25m		2.0Ø	6.0mØ	20 †Δ					G	OV9
101	J464	150m				30			25m		2.0Ø	6.0mØ	30 †Δ					G	OV9
102	J465	150m				30			25m		2.0Ø	6.0mØ	40 †Δ					G	OV9
103	J466	150m				30			25m		2.0Ø	6.0mØ	50 †Δ					G	OV9
104	MT101	150m		1.0m	♥S	10		3.0		.10uØ	2.5Ø	.20m	100 †					PE†	u15
105	NS060	150m	6.0m	1.0m	§J	45		1.0	25m		5.0	1.0m	15	500nb	40	2.0	5.0p	ME	
106	JAN2N332	150m	1.0MΔ	1.2m	$A	45		1.0			5.0	1.0m	9.0 Δ	1.2uØb	80 Ø	5.0 Ø	20pØ		TO5
107	2N789	150m	1.0MΔ	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	9.0 Δ	1.2uØb	80 Ø	5.0 Ø	10pØ		u95
108	2N902	150m	1.0MΔ	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	9.0 Δ	1.2uØb	80 Ø	10 Ø	10pØ		u10 AØ
109	2N790	150m	2.0MΔ	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	18 Δ	1.2uØb	80 Ø	10 Ø	10pØ		u95 A
110	2N792	150m	2.0MΔ	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	36 Δ	1.2uØb	80 Ø	10 Ø	10pØ		u95 A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1	2N793	150m	2.0M△	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	76 △	1.2u☑b	80 ☑	10 ☑	10p☑		u95	A
2	2N903	150m	2.0M△	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	18 △	1.2u☑b	80 ☑	10 ☑	10p☑		u10	AØ
3	2N905	150m	2.0M△	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	36 △	1.2u☑b	80 ☑	10 ☑	10p☑		u10	AØ
4	2N906	150m	2.0M△	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	76 △	1.2u☑b	80 ☑	10 ☑	10p☑		u10	AØ
5#	THP61	150m	2.0M			15			25m	5.0										
6#	THP62	150m	2.0M			15			25m	5.0										
7#	THP35,	150m	3.0M			30			25m	5.0										
8#	2S002	150m	4.0M△	769u	§J	45		1.0	25m	30nØ	5.0	1.0m	25	400nb	42	2.5	7.0p	G	TO5	
9	J623	150m	4.0M			15			25m		5.0Ø	1.0m	18					G	TO5	
10	J624	150m	4.0M			30			25m		5.0Ø	1.0m	18					G	TO5	
11	J625	150m	4.0M			60			25m		5.0Ø	1.0m	18					G	TO5	
12#	THP36	150m	5.0M			30			25m	5.0										
13	CDQ10001	150m	6.0M	10m	§J	45		1.0	25m	2.0u	5.0	1.0m	200	400nb	42	4.0	7.0p	G	OV6	
14	J626	150m	6.0M			15			25m		5.0Ø	1.0m	50					G	TO5	
15	J627	150m	6.0M			30			25m		5.0Ø	1.0m	50					G	TO5	
16	J628	150m	6.0M			60			25m		5.0Ø	1.0m	50					G	TO5	
17	J629	150m	7.0M			15			25m		5.0Ø	1.0m	140					G	TO5	
18	J630	150m	7.0M			30			25m		5.0Ø	1.0m	140					G	TO5	
19	J631	150m	7.0M			60			25m		5.0Ø	1.0m	140					G	TO5	
20	JAN2N334	150m	8.0M△	1.2m	§A	45		1.0			5.0	1.0m	19 △	1.2u☑b	80 ☑	10 ☑	20p☑		TO5	
21	2N791	150m	8.0M△	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	18 △	1.2u☑b	80 ☑	10 ☑	10p☑		u95	A
22	2N904	150m	8.0M△	1.0m	§A	45	30	1.0	25m	2.0uØ	5.0	1.0m	18 △	1.2u☑b	80 ☑	10 ☑	10p☑		u10	AØ
23	CDQ10003	150m	8.0M	10m	§J	45		1.0	25m	2.0u	5.0	1.0m	29	b	25 ☑		7.0p	PL	TO5	Ø
24	NS063	150m	8.0M	1.0m	§J	45		1.0	25m		5.0	1.0m	29	500nb	40	3.0	5.0p	ME		
25	ST1242	150m	8.0M		§	40		2.0	25m		5.0	1.0m	30	.50u	55	3.7	10p		TO5	
26	JAN2N431	150m	10M△		§S	30	15	4.0			5.0	2.0m	30 ☑	1.5u☑b	90	10	25p☑		TO5	
27	JAN2N432	150m	10M△	1.2m	§S	30	15	4.0		2.0uØ	5.0	2.0m	20 △	1.5u☑b	90 ☑	13 ☑	25p☑		TO5	
28	JAN2N433	150m	10M△	1.2m	§S	30	15	4.0		2.0uØ	5.0	2.0m	45 △	1.5u☑b	90 ☑	13 ☑	25p☑		TO5	
29	CDQ10005	150m	10M	1.0m	§J	45		1.0	25m	2.0u	5.0	1.0m	54	500nb	25 ☑	3.5	7.0p	PL	TO5	Ø
30	NS066	150m	10M	1.0m	§J	45		1.0	25m		5.0	1.0m	54	500nb	40	3.0	5.0p	ME		
31#	THP106	150m	10.M			30		1.0	25m	2.0u	5.0	1.0m	25	.50u	50	5.0	10			
32	NS069	150m	11M	1.0m	§J	45		1.0	25m		5.0	1.0m	63	300nb	40	4.0	5.0p	ME		
33	4C28	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	15 †	200nb	50	3.0	8.0p	GD	R133	A
34	4C29	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	30 †	200nb	50	3.0	8.0p	GD	R133	A
35	4C30	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	55 †	200nb	50	3.0	8.0p	GD	R133	A
36	4C31	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	115 †	200nb	50	3.0	8.0p	GD	R133	A
37	D4C28	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	15 †	200nb	50	3.0	8.0p	GD	R133	A
38	D4C29	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	30 †	200nb	50	3.0	8.0p	GD	R133	A
39	D4C30	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	55 †	200nb	50	3.0	8.0p	GD	R133	A
40	D4C31	150m	12M	1.4m	♦J	40	30	2.0	25m	2.0uØ	5.0Ø	1.0m	115 †	200nb	50	3.0	8.0p	GD	R133	A
41	CDQ10009	150m	13M	1.0m	§J	45		1.0	25m	2.0u	5.0	1.0m	200	250nb	25 ☑	7.0	7.0p	PL	TO5	Ø
42	NS072	150m	13M	1.0m	§J	45		1.0	25m		5.0	1.0m	200	250nb	40	5.0	5.0p	ME		
43	NS6210Ø	150m	20M§△	1.1m	§A	30	15	15		10nØ	5.0Ø	1.0mØ	50 †△				12p☑		X16	
44	ST1243	150m	20M		§	40		2.0	25m		5.0	1.0m	30 †	200n	30	2.0	2.0p		TO5	A
45	ST1244	150m	20M		§	40		2.0	25m		5.0	10m	80 †	200n	30	2.0	2.0p		TO5	A
46	ST1290	150m	20.M		§	20		2.0	25m		5.0	10m	180 †	.20u	30	2.0	2.0p		TO5	
47	4JD4A2	150m	25.M		$		1.0		20m	.15uØ			14				14			
48	4JD4A3	150m	25.M		$		1.0		20m	.15uØ							14			
49	4JD4A4	150m	25.M		$		1.0		20m	.15uØ			15				14			
50	4JD4A5	150m	25.M		$		1.0		20m	.15uØ			40				14			
51#	ST25A	150m	25M		§J	45			15m	20uØ	9.0Ø	1.0mØ	15	600nb	45	4.0	3.0p			
52#	ST25B	150m	25M		§J	45			15m	20uØ	9.0Ø	1.0mØ	32	600nb	45	4.0	3.0p			
53#	ST25C	150m	25M		§J	45			15m	20uØ	9.0Ø	1.0mØ	68	600nb	45	4.0	3.0p			
54	2N745†	150m	30M	1.0m	§J	45	30	1.0	20m	1.0uØ	20	1.0m	55	100nb	47	1.8	1.4p	PD	u2	
55	2N907†	150m	30M	1.3m	§J	45		1.0	20m	50u	5.0Ø	10mØ	35 †	100nb	47	1.8	1.4p	PD	u10	
56	2N930/TPT	150m	30M§△	833u		45	45	5.0	30m	10n	5.0Ø	1.0mØ	150 △	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	PLØ	X31	
57	2N930A/51	150m	30M§△	833u		60	45	6.0	30m	2.0nØ	5.0Ø	1.0mØ	150	1.0ub	28	6.0	4.0p	PLØ	TO51	
58#	2SC267	150m	30M§△		§J	35	20	5.0	200m	1.0uØ	1.0Ø	20mØ	40 †△				10p☑	PE	u23a	C
59	TIS22	150m	30M§△	1.5m	♦J	45	45	6.0	50m	.01u	5.0Ø	.01mØ	40 †△	40u☑	11 ☑	8 ☑	6p☑	PØ	X16	
60	TIS23	150m	30M§△	1.5m	♦J	45	45	6.0	50m	.01u	5.0Ø	.01mØ	100 †△	60u☑	18 ☑	8 ☑	6p☑	PØ	X16	
61	TMT839	150m	30M§	1.0m	§J	45	45 §	2.0	20m	1.0u	5.0Ø	1.0mØ	35	350nb	40	2.0	8.0p	ME†	u5	
62	TMT840	150m	30M§	1.0m	§J	45	45 §	2.0	20m	1.0u	5.0Ø	1.0mØ	70	350nb	40	2.0	8.0p	ME†	u5	
63	TMT842	150m	30M§	1.0m	§J	45	45 §	2.0	20m	1.0u	5.0Ø	10mØ	40 †	350nb	40	2.0	6.0p	ME△	u5	
64	2N841/51	150m	40M§	833u		45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	140	350nb	40	2.0	8.0p	ME†	TO51	
65	2N841/TPT	150m	40M§	833u		45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	140	350nb	40	2.0	8.0p	ME†	X31	
66	LDA408	150m	40M§	1.0m	♦A	40	30	4.0	25m	50n	1.0Ø	4.0m	60 †					PL	TO72	
67	TMT841	150m	40M§	1.0m	§J	45	45 §	2.0	20m	1.0u	5.0Ø	1.0mØ	140	350nb	40	2.0	8.0p	ME†	u5	
68	TMT843	150m	40M§	1.0m	§J	45	45 §	2.0	20m	1.0u	5.0Ø	10mØ	100 †	350nb	40	2.0	6.0p	ME△	u5	
69	2N746	150m	45M	1.0m	§J	45	30	1.0	20m	1.0uØ	20	1.0m	99	100nb	47	1.8	1.4p	PD△	u2	
70	2N908†	150m	45M	1.3m	§J	45		1.0	20m	50u	5.0Ø	10mØ	75 †	100nb	47	1.8	1.4p	PD	u10	
71	2N3128	150m	60M§△	1.1m	§J	20	20	5.0	100m	10nØ	5.0Ø	10uØ	25 †△	40u☑b	1.0 ☑	6.0 ☑	6.0p☑	P	X16	
72	2N3129	150m	60M§△	1.1m	§J	45	45	6.0	100m	10nØ	5.0Ø	10uØ	100 †△	40u☑b	1.0 ☑	6.0 ☑	6.0p☑	P	X16	
73	2N3130	150m	60M§△	1.1m	§J	60	60	8.0	100m	10nØ	5.0Ø	10uØ	60 †△	40u☑b	1.0 ☑	6.0 ☑	6.0p☑	P	X16	
74	TIS24	150m	60M§△	1.5m	♦J	60	60	6.0	50m	.01u	5.0Ø	.01mØ	100 †△	100u☑	30 ☑	8 ☑	6p☑	PØ	X16	
75	2N770†	150m	75M§△	833u	§S	20	15	3.0	100m	700nØ	1.0Ø	20mØ	12 †△				3.5p☑		TO18	A
76	2N772†	150m	75M§△	833u	§S	25	25	3.0	100m	500nØ	5.0Ø	10mØ	20 †△				3.5p☑		TO18	A
77	2N1199A†	150m	75M§△	833u	§S	20	15	3.0	100m	700nØ	1.0Ø	20mØ	12 †△				3.5p☑		TO9	A
78	JAN2N1199A	150m	75M§△	1.2m	§S	20	15	3.0		5.0u	1.0Ø	20mØ	12 †△				2.5p☑		R49	
79#	2SC268B	150m	75M§	1.2m	§J	150	150 #	5.0	30m	100nØ	1.0Ø	1.0mØ	120 †				4.0p☑	E	u23a	C
80	2N1893/51	150m	80.M△	833u		120	80	7.0		.01uØ	10Ø	150mØ	80 †#	11u	2.8k	3.5	15p☑	PL△	TO51	
81	2N1893/TPT	150m	80.M△	833u		120	80	7.0		.01uØ	10Ø	150mØ	80 #†	11u	2.8k	3.5	15p☑	PL△	X31	
82	TMT696	150m	80M	833u	§J	60	40	5.0	200m#	1.0uØ	10	150m	40 †					ME	TO51	
83#	2SC182	150m	90.M§		§J	25	20 §	5.0	150m	1.0uØ	1.0Ø	20mØ	80 †				6.5p	PE	u23a	C
84#	2SC267A	150m	90.M§		♦J	50	30	5.0	200m	5.0u	1.0Ø	20mØ	70 †				6.5p	PE	u23	
85#	2SC268	150m	90.M§		§J	60	60 Ø	5.0	30m	5.0uØ	1.0Ø	1.0mØ	40 †				6.5p	PE	u23a	C
86#	2SC268A	150m	90.M§		§J	80		5.0	30m	2.0uØ	1.0Ø	1.0mØ	40 †				1.6p	PE	u23a	C
87	2N771†	150m	100M§△	833u	§S	20	15	3.0	100m	700nØ	1.0Ø	20mØ	30 †△				3.5p☑		TO18	A
88	2N1663†	150m	100M§△	833u	§S	20	15	3.0	100m	700nØ	1.0Ø	20mØ	30 †△				3.5p☑		TO9	A
89#	2SC475	150m	100M§		§J	20	15	5.0	100m	.10uØ	3.0Ø	.50mØ	300 †	3.5u	15k	18		PE	u23	C
90#	2SC476	150m	100M§		§J	20	15	5.0	100m	.10uØ	3.0Ø	.50mØ	350 †	3.8u	15k	20		PE	u23	C
91#	2SC540	150m	100M§		§J	30	20	5.0	100m	.10uØ	3.0Ø	.50mØ	270 †	3.0u	15k	16		PE	u23	C
92#	C5	150m	100M§	1.5m	♦J	50	45	5.0	30m	50nØ	3.0Ø	500u	135 †△					E .	u56b	A
93	CS2639*	150m	100M§△	1.2m	§J	45	45	5.0	30m	.01u	5.0Ø	1.0mØ	65 †△					DPLØ	L2r	
94	CS2640*	150m	100M§△	1.2m	§J	45	45	5.0	30m	.01u	5.0Ø	1.0mØ	65 †△					DPLØ	L2r	
95	CS2641*	150m	100M§△	1.2m	§J	45	45	5.0	30m	10n	5.0Ø	1.0mØ	65 △	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	DPLØ	L2r	
96	CS2642*	150m	100M§△	1.2m	§J	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	DPL*	L2r	
97	CS2643*	150m	100M§△	1.2m	§J	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	DPL*	L2r	
98	CS2644*	150m	100M§△	1.2m	§J	45	45	5.0	30m	10n	5.0Ø	1.0mØ	130 △	1.0u☑b	32 ☑	6.0 ☑	8.0p☑	DPLØ	L2r	
99	CS29008*	150m	100M§△	1.2m	§J	75	45	6.0	30m	10nØ	5.0Ø	1.0mØ	65 △	1.0u☑b	32 ☑	6.0 ☑	4.0p☑	DPL*	L2r	
100	CS29009*	150m	100M§△	1.2m	§J	75	45	6.0	30m	10nØ	5.0Ø	1.0mØ	65 △	1.0u☑b	32 ☑	6.0 ☑	4.0p☑	DPLØ	L2r	
101	CS29010*	150m	100M§△	1.2m	§J	75	45	6.0	30m	10nØ	5.0Ø	1.0mØ	65 △	1.0u☑b	32 ☑	6.0 ☑	4.0p☑	DPLØ	L2r	
102	CS29011*	150m	100M§△	1.2m	§J	75	45	6.0	30m	10nØ	5.0Ø	1.0mØ	120 †△	1.0u☑b	32 ☑	6.0 ☑	4.0p☑	DPL*	L2r	
103	CS29012*	150m	100M§△	1.2m	§J	75	45	6.0	30m	10nØ	5.0Ø	1.0mØ	120 †△	1.0u☑b	32 ☑	6.0 ☑	4.0p☑	DPL*	L2r	
104	CS29013*	150m	100M§△	1.2m	§J	75	45	6.0	30m	10nØ	5.0Ø	1.0mØ	120 △	1.0u☑b	32 ☑	6.0 ☑	4.0p☑	DPLØ	L2r	
105	MCS2135	150m	100M§△	1.5m	♦J	75	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	80 △	50u☑	20 ☑	25 ☑	3p☑	EA△Ø	X38	
106	MCS2136	150m	100M§△	1.5m	♦J	75	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	150 △	50u☑	25 ☑	25 ☑	3p☑	EA△Ø	X38	
107	NS6112	150m	100M	1.2m	§J	10	10	4.0	100m	.01u	5.0	.10m	45 △				5.0p	PEØ	X16	
108	NS6113	150m	100M	1.2m	§J	10	10	4.0	100m	.01u	5.0	.10m	70 △				5.0p	PEØ	X16	
109	NS6114	150m	100M	1.2m	§J	10	10	4.0	100m	.01u	5.0	.10m	115 △				5.0p	PEØ	X16	
110	NS6115	150m	100M	1.2m	§J	10	10	4.0	100m	.01u	5.0	.10m	180 △				5.0p	PEØ	X16	

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 DERATE IN FREE AIR W/°C	fab (Hz)	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	TMT697	150m	100M	833u	§J	60	40	5.0	200m#	1.0uØ	10	150m	75 †					ME	TO51
2	2N1613/51	150m	130M	833u		75	50 §	7.0		.01uØ	10Ø	150mØ	80 †#	12.u	2.2k	3.6	25pØ	PL†△	TO51
3	2N1613/TPT	150m	130M	833u		75	50 §	7.0		.01uØ	10Ø	150mØ	80 †#	12.u	2.2k	3.6	25pØ	PL†△	X31
4#	2SC621†	150m	150M§	1.2m	§J	25	15	4.0	100m	1.0u	6.0Ø	10mØ	75 †#	15u	2.5k	.40	2.5p	PE	R126 A
5#	2SC621A†	150m	150M§		§J	30	25	4.0	100m	1.0uØ	6.0Ø	10mØ	75 †#	15u	2.5k	400m	2.5p	PE	R107c
6#	2SC622	150m	150M§	1.2m	§J	25	15	4.0	100m	1.0u	6.0Ø	10mØ	75 †#				2.5p	PE	R126
7#	2SC912†	150m	150M§	1.2m	§J	30	25	4.0	100m	1.0u	6.0Ø	10mØ	90 †#	15u	2.5k	.35	2.5p	PE	R126 A
8#	BFS29P	150m	150M	1.2m	$	45	45	5.0	200m	20n	15Ø	100mØ	40 †△				5.0p	PE	u17c E
9#	BFS30P	150m	150M	1.2m	$	45	45	5.0	200m	20n	15Ø	100uØ	60 †△				5.0p	PE	u17c E
10#	BFS31P	150m	150M	1.2m	$	45	30	5.0	200m	20n	15Ø	100uØ	80 †△				5.0p	PE	u17c E
11	MT104	150m	150M	1.0m	§J	60		5.0		1.0u	10Ø	150mØ	40 †				20p	PE	u15
12	NS6207†	150m	150M§△	1.2m	§J	45		5.0		200nØ	1.0Ø	150mØ	30 †#△				8.0pØ	E	X16
13	NS6212	150m	150M§△	1.2m	§A	150	150	6.0		50nØ	10Ø	10mØ	50 †△				10pØ		X16
14	2N1711/51	150m	160M	833u	§J	75	50 §	7.0		.01uØ	10Ø	150mØ	130 †	23.u	4.4k	7.3	25pØ	PLØ△	TO51
15	2N1711/TPT	150m	160M	833u		75	50 §	7.0		.01uØ	10Ø	150mØ	130 †	23.u	4.4k	7.3	25pØ	PLØ△	X31
16#	L4	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	90 †△				5.5pØ	E	
17#	L5	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	135 †△				5.5pØ	E	
18#	L6	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	200 †△				5.5pØ	E	
19#	L7	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	300 †△				5.5pØ	E	
20#	M3	150m	180M§	1.5m	♦J	50	40	5.0	100m	100nØ	6.0Ø	1.0mØ	60 †△					E	u56b A
21#	BFY37I	150m	200M§△	1.0m	§J	25	20	5.0	100m	100nØ	10Ø	10mØ	35 †△				2.3p	PL	TO18
22#	D6	150m	200M§	1.5m	♦J	30	25	5.0	30m	50nØ	3.0Ø	500uØ	200 †△					E	
23#	D7	150m	200M§	1.5m	♦J	30	25	5.0	30m	50nØ	3.0Ø	500uØ	300 †△					E	
24#	D8	150m	200M§	1.5m	♦J	30	25	5.0	30m	50nØ	3.0Ø	500uØ	450 †△					E	
25	NS6203	150m	200M§△	1.2m	§J	30	30	5.0		.02uØ	10Ø	10mØ	100 †△				8pØ	PE	X16
26	2N3131†	150m	250M§△	1.1m	§J	40	15	5.0	100m	25n#	1.0Ø	10mØ	30 †△				4.0pØ	P	X16
27#	BCW60A†	150m*	250M§	1.2m	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	200	18	2.7k	1.5	4.5p§Ø	PEØ	u56a A
28#	BCW60B†	150m*	250M§	1.2m	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	260	24	3.6	2.0	4.5p§Ø	PEØ	u56a A
29#	BCW60C†	150m*	250M§	1.2m	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	330	30	4.5	2.0	4.5p§Ø	PEØ	u56a A
30#	BCW60D†	150m*	250M§	1.2m	§J		32	5.0	100m	20n§	5.0Ø	2.0mØ	520	50	7.4	3.0	4.5p§Ø	PEØ	u56a A
31#	F1	150m	250M§	1.5m	♦J	50	25	5.0	50m	100nØ	3.0Ø	500uØ	30 †△				2.5pØ	E	
32#	F2	150m	250M§	1.5m	♦J	50	25	5.0	50m	100nØ	3.0Ø	500uØ	40 †△				2.5pØ	E	
33#	F3	150m	250M§	1.5m	♦J	50	25	5.0	50m	100nØ	3.0Ø	500uØ	60 †△				2.5pØ	E	
34#	F4	150m	250M§	1.5m	♦J	50	25	5.0	50m	100nØ	3.0Ø	500uØ	90 †△				2.5pØ	E	
35#	F5	150m	250M§	1.5m	♦J	50	25	5.0	50m	100nØ	3.0Ø	500uØ	135 †△				2.5pØ	E	
36#	2SC100†	150m	300M§△		§J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 †△				6.0pØ	PE	u23 C
37#	2SC405†	150m	300M§		#J	15		3.5	50m	3.0uØ	30Ø	10m	40 †				5.0p	ME	TO18
38	2N706/TPT	150m	320M△	833u	§J	25	20 §	3.0		.05uØ	1.0Ø	10mØ	20 †#△				6pØ	D	X31
39	2N706A/TPT	150m	320M△	833u		25	15	5.0		.05uØ	1.0Ø	10mØ	20				6pØ	D	X31
40#	2SC739	150m	350M§	1.5m	♦J	25	12	4.0	20m	1.0uØ	6.0Ø	1.0mØ	60 †#				1.5p	PE†	TO92 D
41	2N2218/TPT	150m	400M§	833u		60	30	5.0		.01uØ	10Ø	150mØ	80 †				4.0p		X31
42	2N2219/TPT	150m	400M§	833u		60	30	5.0		.01uØ	10Ø	150mØ	150 †				4.0p		X31
43#	2SC659	150m	400M§	1.2m	§J	25	12	4.0	20m	1.0uØ	6.0Ø	1.0mØ	60 †#				1.5p	PE	R126
44	A466	150m	400M§	1.0m	§J	40	30	4.0	25m	10u	10Ø	4.0m	60 †				1.3p	PLØ	TO72 J
45#	B2†	150m	400M§	1.0m	♦J						.50Ø	1.0 Ø	40 †△				6.0pØ		
46#	B3†	150m	400M§	1.0m	♦J						.50Ø	1.0 Ø	60 †△				6.0pØ		
47#	B4†	150m	400M§	1.0m	♦J						.50Ø	1.0 Ø	90 †△				6.0pØ		
48#	BF207	150m	400M§	1.0m	§J	40	30	4.0	25m	.10uØ	10Ø	4.0mØ	80 †				.15p†	PL	TO72 G
49#	BSV53P†	150m	400M	1.2m	$						1.0Ø	10mØ	40 †△				4.0p		u17c E
50#	BSV54P†	150m	400M	1.2m	$						1.0Ø	10mØ	20 †△				4.0p		u17c E
51	MT106	150m	400M§	1.0m	§J	25		5.0		10u	1.0Ø	10mØ	40 †				4.5p	PE	u15
52	MT107	150m	400M§	1.0m	§J	40		5.0		25nØ	1.0Ø	10mØ	30 △†				6.0p	PE	u15
53	NPC167	150m	400M§	1.0m	§S	40	30	4.0	25m	.01u	10Ø	4.0mØ	57				1.3p	PLØ	TO72 J
54	NS6213	150m	400M	1.1m	§J	25	15	4.0	100m	.50u	.01Ø	5.0mØ	20					P	X16
55#	2SC921	150m	450M§△		§J	25	12	4.0	10m	100n	3.0Ø	500uØ	65 †				1.5pØ	PE	u23a C
56	2N708/TPT	150m	480M△	833u		40	15	5.0		.02uØ	1.0Ø	10mØ	30 †#△				6pØ	PL	X31
57#	2SC1035	150m	500M§		§J	30	15	3.0	20m	1.0u	6.0Ø	1.0mØ	70 †				1.0p	PL	TO104
58#	2SC1036	150m	500M§		§J	30	15	3.0	20m	1.0u	6.0Ø	1.0mØ	70 †				1.0p	PL	TO104
59	MT102	150m	500M	1.0m	§J	40	15	5.0		25n	1.0Ø	10mØ	50 †				6.0pØ	PE△	u15
60#	2SC658	150m	550M§	1.2m	§J	25	12	4.0	20m	1.0uØ	6.0Ø	1.0mØ	60 †#				1.5p	PE	R126
61#	2SC660	150m	600M§	1.4m	♦J	25	12	3.0	20m	100nØ	10Ø	3.0mØ	60 †#				1.0p	PL	R107c
62#	2SC661	150m	600M§	1.4m	♦J	25	12	3.0	20m	100nØ	10Ø	3.0mØ	60 †#				1.0p	PL	R107c
63#	2SC707	150m	650M§			20	20	3.0	20m	100u	10Ø	2.0mØ	50 †				.40p	PØ	
64	MT100	150m	750M	1.0m	§J	25	20 §	3.0		.50u	1.0Ø	10mØ	45 †				5.0p	PE△	u15
65	2N709/TPT	150m	800M§	833u		15	6.0	4.0		.05uØ	.50Ø	10mØ	55 †				3pØ	PL	X31
66	2N2369/TPT	150m	800M△	833u		40	15	4.5	500m	.40uØ	1.0Ø	10m	80 †				4pØ	PE	X31
67	2N2594/TPT	150m	800M△	833u		40	15	4.5	500m	.40uØ	1.0Ø	10m	80 †				4pØ	PE	X31
68#	2SC662	150m	800M§	1.2m	§J	25	12	2.0	20m	.50uØ	10Ø	2.0mØ	40 †#				1.0p	PE	R126
69#	2SC663	150m	900M§	1.2m	§J	25	12	2.0	20m	.50uØ	10Ø	10mØ	40 †#				1.4p	PE	R126
70#	2SC740	150m	900M§	1.2m	§J	25	12	2.0	20m	.50uØ	10Ø	10mØ	40 †#				1.4p	PE	R126
71	2N2784/TPT	150m	1.0G§	833u		15	6.0	4.0	500m	5nØ	.50Ø	10mØ	120 †Ø				3pØ	PE	X31
72	A427	150m	1.0G§	1.0m	§J	25	20	3.0	15m	100nØ	10	3.0m	23 †				1.0p	PE	TO72 G
73#	2SC391	150m	1.2G§	1.2m	§J	20	12	2.0	20m	1.0u	10Ø	2.0m	70				2pØ	PE	TO72
74#	2SC804	150m	1.2G§	2.0m	§J	15	13		20m	.50u	3.0Ø	1.0mØ	50 †		60 Ø		.45pØ	D	
75	2N3633/51	150m	1.3G§	833u		15	6.0	4.0	50m	5nØ	.50Ø	10mØ	150 †Ø				2.5pØ	PE	TO51
76	2N3633/TPT	150m	1.3G§	833u		15	6.0	4.0	50m	5nØ	.50Ø	10mØ	150 †Ø				2.5pØ	PE	X31
77#	BFW78	150mØ	1.5G§	1.0m	§J	30	14	4.0	80m	.50uØ	5.0Ø	.50mØ	70 †				1.2p	PE†	u34a A
78	K5011	150m	1.5G	1.1m	§J	25	12	25		50nØ	1.0Ø	3.0mØ	100 †				800f	D	TO50 C
79	K5010	150m	1.7G	1.1m	§J	25	12	25		50nØ	1.0Ø	3.0mØ	100 †				800f	D	TO50 C
80#	V327	150m	3.2G§	1.2m	§J	20	12	3.0	.50m	.50uØ	1.0Ø	30mØ	90 †#				.90p	PE	u23a C
81#	2SC987	150m	4.5G§	1.2m	§J	20	15	3.0	30m	.50uØ	10Ø	10mØ	30 †△				.5pØ	PE	X80 GJ
82#	BF214	160m	150M§△	1.1m	§J	30	30	4.0	30m		10Ø	1.0mØ	150				.70pØ	PE	TO72 J
83#	BF215	160m	150M§△	1.1m	§J	30	30	4.0	30m		10Ø	1.0mØ	70				.70pØ	PE	TO72 J
84#	BF226	160m	150M§△	1.1m	§J	30	30	4.0	30m		10Ø	1.0mØ	70				.70pØ	PE	TO72 J
85	A495	160m	220M§	2.0m	♦J	30	20	5.0	30m		10	1.0m	67 †				1p†	PEØ	MM10 C
86#	BF115†	160m	270M§		§S	50	30	5.0	30m	.50u	10Ø	1.0mØ	165 †Ø					E	TO72
87	NPC115	160m	270M§	1.1m	§S	50	30	5.0	30m	.50uØ	10Ø	1.0mØ	45 †△				.50p†	PEØ	TO72 J
88#	BSW13†	160m	280M§△	2.0m	♦J	20	15	5.0	50m	500nØ	.35Ø	10mØ	40 †△				5.0pØ	PE	u32
89	A494	160m	300M§	2.0m	♦J	30	20	5.0	30m		10	1.0m	115 †				1p†	PEØ	MM10 C
90#	BF189	160m	300M§△	1.0m	J	50	30	5.0	25m		10Ø	1.0mØ	65 †△					PE	TO72
91	NPC189	160m	300M§	1.1m	§S	50	30	5.0		.50uØ	10Ø	1.0mØ	45 †△				.5p†	E	TO72 J
92#	BF187	160m	500M§			40			25m									PE	TO18
93	NPC187	160m	500M§	1.1m	§S	40	30	5.0	25m	.01uØ	10Ø	4.0mØ	30 †△				.4p†	PE	TO72 J
94	2N778	170m§		1.2m	$	20		2.0	100m		10Ø	2.0mØ	50				1.5p	D	TO18
95#	FK2484	175m	60M§△	1.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	450 †				6.0pØ	DPLØ	u17b
96#	FV2484	175m	60M§△	1.0m	§J	60	60	6.0	50m	10nØ	5.0Ø	1.0mØ	450 †				6.0pØ	DPLØ	u5b
97#	FK3299†	175m	200M§△	1.0m	§J	60	30	5.0		10n§Ø	10Ø	150mØ	75 †#				8.0pØ	DPE	u17b
98#	FV3299†	175m	200M§△	1.0m	§J	60	30	5.0		10n§Ø	10Ø	150mØ	75 †#				8.0pØ	DPE	u5b
99#	FK3300†	175m	250M§△	1.0m	§J	60	30	5.0		10n§Ø	10Ø	150mØ	220 †#				8.0pØ	DPE	u17b
100#	FV3300†	175m	250M§△	1.0m	§J	60	30	5.0		10n§Ø	10Ø	150mØ	220 †#				8.0pØ	DPE	u5b
101#	BC129	175m*	300M§	1.7m	§J	50	45	5.0	100m	.10uØ	5.0Ø	2.0mØ	125 △				4.5p	PE	TO18
102#	BC130	175m*	300M§	1.7m	§J	25	20	5.0	100m	.10uØ	5.0Ø	2.0mØ	125 △				4.5p	PE	TO18
103#	BC131	175m*	300M§	1.7m	§J	25	20	5.0	100m	.10uØ	5.0Ø	2.0mØ	240 △				4.5p	PE	TO18
104#	FK914†	175m	300M§△	1.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	55 †#				6.0pØ	DPE	u17b
105#	FK3014†	175m	300M§△	1.0m	§J	40	20	5.0		300n§Ø	.40Ø	30mØ	60 †#				5.0pØ	DPE	u17b
106#	FV914†	175m	300M§△	1.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	55 †#				6.0pØ	DPE	u5b
107#	FV3014†	175m	300M§△	1.0m	§J	40	20	5.0		300n§Ø	.40Ø	30mØ	60 †#				5.0pØ	DPE	u5b
108	SE5040	175m	300M§△	1.1m	§J	30	30 Ø	3.0		50nØ	10Ø	4.0mØ	80				140f§	DPLØ	TO72 J
109#	FK2369A†	175m	500M§△	1.0m	§J	40	15	4.5	100m	400n§Ø	.40Ø	30mØ	71 †#				4.0pØ	DPE	u17b
110	FT118	175m	500M§	1.2m	♦J	20	20	3.0		.05u	10Ø	2.0mØ	80 †				.13p§	DPL	TO72 JØ

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 DERATE fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1#	FV2369A†	175m	500M§△	1.0m	§J	40	15	4.5	100m	400n§Ø	.40Ø	30mØ	71 †#				4.0pØ	DPE	u5b		
2#	FK918	175m	600M§△	1.0m	§J	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	50 †				2.0pØ	DPE	u17b		
3#	FV918	175m	600M§△	1.0m	§J	30	15	3.0	50m	10nØ	1.0Ø	3.0mØ	50 †				2.0pØ	DPE	u5b		
4	40350	180m				35												P	R92	Ø	
5	40351	180m				35												P	R92a		Ø
6	40352	180m				35												P	R92a		Ø
7	2SC402A	180m	140M§		♦J	50			100m	.20uØ	3.0Ø	1.0mØ	60 †				2.8p	EM	u37		
8	2SC631	180m	140M§		♦J	25	25	6.0	100m	.20u	3.0Ø	1.0mØ	350 †				4.5p	EM	u37		
9	2SC632	180m	140M§		♦J	40	40	6.0	100m	.20uØ	3.0Ø	1.0mØ	350 †				4.5p	EM	u37		
10	2SC633	180m	140M§		♦J	25	25	6.0	100m	.20u	3.0Ø	1.0mØ	90 †				4.5p	EM	u37		
11	2SC634	180m	140M§		♦J	40	40	6.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				4.5p	EM	u37		
12#	AT345	180m	400M§△	1.2m	§J	45	45	3.0	20m	100n	10Ø	2.0m	35 †#△				600f☑	PL	TO104	G	
13#	AT346	180m	400M§△	1.2m	§J	45	45	3.0	20m	100n	10Ø	2.0m	35 †#△				600f☑	PL	TO104	G	
14#	AT355	180m	400M§△	1.2m	§J	20	20	3.0	20m	100n	10Ø	2.0m	35 †#△				600f☑	PL	TO104	G	
15#	AT356	180m	400M§△	1.2m	§J	20	20	3.0	20m	100n	10Ø	2.0m	35 †#△				600f☑	PL	TO104	G	
16#	AT342	180m	550M§	1.2m	§J	20	20	3.0	20m	.10uØ	10Ø	2.0mØ	35 #†△				.47p	PL†Ø	R103 a	G	
17#	AT343	180m	550M§	1.2m	§J	20	20	3.0	20m	.10uØ	10Ø	2.0mØ	35 #†△				.47p	PL†	R103 a	G	
18	40470	180m	700M§	1.1m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	170 †☑				180f§		TO104	J Ø	
19	40471	180m	700M§	1.1m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	100 †☑				180f§		TO104	J Ø	
20	40469	180m	800M§	1.1m	§J	45		3.0	50m	1.0u	6.0Ø	1.0mØ	170 †☑				190f§	Ø	TO104	J Ø	
21	2N747†	200m		1.3m	§S	25	25	3.0	50m	100nØ	1.0Ø	10mØ	30 †△				8.0pØ		u95	A	
22	2N748†	200m		1.3m	§S	30	30	3.0	50m	100nØ	1.0Ø	10mØ	20 †△				8.0pØ		u95	A	
23	2N847†	200m		7.7m	§S	40	25	10	50m	.10uØ											
24	2N848†	200m		7.7m	§S	20	15	6.0	50m	.10uØ											
25	2N1082	200m		1.5m	§S	25	25 Ø	2.0	50m	.50u	5.0Ø	10mØ	10 △				5p☑	†	TO5		
26	JAN2N1082	200m		1.4m	§S	25	25 Ø	2.0	50m	500n	5.0Ø	10mØ	10 △				5.0p☑	†	TO5		
27	2N4087	200m		2.6m	♦S	12	12	5.0	100m	100n	10Ø	2.0mØ	250 △				12p☑		TO98	B	
28	2N4087A	200m		2.6m	♦S	12	12	5.0	100m	100n	10Ø	2.0mØ	250 △				12p☑	Ø	TO98	B	
29	3N127Ø	200m		1.3m	§S	30	20	20	10m	10n	10Ø	1.0mØ	2.0 △				5.0p☑		TO72		Ø
30	4JX16A667	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	55 *△					PL	R67		
31	4JX16A667/G	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	235 △					PL	R67		
32	4JX16A667/O	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	90 △					PL	R67		
33	4JX16A667/R	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	55 △					PL	R67		
34	4JX16A667/Y	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	150 △					PL	R67		
35	4JX16A668	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	90 *△					PL	R67		
36	4JX16A668/G	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	235 △					PL	R67		
37	4JX16A668/O	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	90 △					PL	R67		
38	4JX16A668/Y	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	150 △					PL	R67		
39	4JX16A669	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	150 *△					PL	R67		
40	4JX16A669/G	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	235 △					PL	R67		
41	4JX16A669/Y	200m		2.6m	#J	18	18	5.0	100m	.50u	10Ø	2.0mØ	150 △					PL	R67		
42	4JX16B670/G	200m		2.6m	#J	18	18	5.0	200m	.50u	4.5Ø	2.0mØ	180 †△					PE	R67		
43	4JX16B670/R	200m		2.6m	#J	18	18	5.0	200m	.50u	4.5Ø	2.0mØ	30 †△					PE	R67		
44	4JX16B670/Y	200m		2.6m	#J	18	18	5.0	200m	.50u	4.5Ø	2.0mØ	75 †△					PE	R67		
45#	90T2	200m		2.7m	#J	100		4.0		.50uØ	.50Ø	2.0mØ	25 †△					PE†	R67		B
46#	98T2†	200m		2.7m	#J	18	18	5.0	200m	.50u	4.5Ø	2.0mØ	180 †△		200			PE†	TO98		B
47#	BCY50	200m			♦J	10	5.0	3.0	200m	5nØ	1.5Ø	.10mØ	60 †△				5.0p	PL	TO18		
48	CDQ10035	200m			§S	15		2.0		500n	6.0	1.0m	45	400nb	25	5.0	20p	PL	TO5		Ø
49	CDQ10036	200m			§S	30		2.0		500n	6.0	1.0m	45	400nb	25	5.0	20p	PL	TO5		Ø
50	CI3900	200m		2.6m	J	18	18	5.0	100m	100n	4.5Ø	2.0mØ	170				12pØ	DPL†	R127a	D	
51	CI3900A	200m		2.6m	J	18	18	5.0	100m	100n	4.5Ø	2.0mØ	170				12pØ	DPL†	R127a	D	
52	CI3901	200m		2.6m	J	18	18	5.0	100m	100n	10Ø	2.0mØ	350					DPL†	R127a	D	
53	CI4256	200m		2.7m	J	30	30	5.0	100m	500n	4.5Ø	2.0mØ	500 †					DPL†	R127	D	
54	GI2921	200m		2.7m	♦J		25			.50uØ	10Ø	2.0mØ	70 ☑				12pØ		TO18	A	
55	GI2922	200m		2.7m	♦J		25			.50uØ	10Ø	2.0mØ	110 ☑				12pØ		TO18	A	
56	GI2923	200m		2.7m	♦J		25			.50uØ	10Ø	2.0mØ	180 ☑				12pØ		TO18	A	
57	GI2924	200m		2.7m	♦J		25			.50uØ	10Ø	2.0mØ	300 ☑				12pØ		TO18	A	
58	GI2925	200m		2.7m	♦J		25			.50uØ	10Ø	2.0mØ	470 ☑				12pØ		TO18	A	
59	GI2926	200m		2.7m	♦J		18			.50uØ	10Ø	2.0mØ	470 ☑				12pØ		TO18	A	
60	GI3392	200m		2.7m	♦J	25	25			.10uØ	4.5Ø	2.0mØ	500 ☑				10pØ		TO18	A	
61	RH120†	200m		1.1m	§J	20	10	4.0		.01uØ	5.0Ø	1.0mØ	110 †				1.7p	PL	ZA14		
62	SA2253Ø	200m			§J	40				.05uØ	5.0Ø	.10mØ	25 †					PL	L2		
63	SA2254Ø	200m			§J	60	30			.01uØ	5.0Ø	.10mØ	45 †					PL	L2		
64	TE2926	200m		2.0m	§J	18	18	5.0	100m	500n	10Ø	2.0mØ	35 △*				12pØ	DPL†	TO106	A	
65	TE3900	200m		2.6m		18	18	5.0	100m	100n	4.5Ø	2.0mØ	170				12p		R97a		
66	TE3900A	200m		2.6m		18	18	5.0	100m	100n	4.5Ø	2.0mØ	170				12p		R97a		
67	TE3901	200m		2.6m		18	18	5.0	100m	100n	10Ø	2.0mØ	350						R97a		
68	TE4256	200m		2.7m		30	30 Ø	5.0	100m	500n	4.5Ø	2.0mØ	500 †						R97a		
69	V120RH§	200m		1.0m	§J	20	10	4.0		40nØ	5.0Ø	1.0mØ	14 †				1.7p	PL	ZA15		
70#	2SC466	200m	400m§	1.1m	§J	30	12	2.0	20m	500nØ	6.0Ø	1.0mØ	40				850f	PEØ	R103a		
71	2N541A	200m	8.0M§△	1.2m	§S	15	15	2.0	25m	500nØ	5.0Ø	1.0m	80 △	1.2uØb	70 Ø	10 Ø	20pØ		TO5	A	
72	2N478A	200m	11.M	1.1m	§A	15						1.0mØ	60					GD			
73	ST15	200m	11M	909u	§	15		2.0		20n	6.0Ø	1.0m	50	60nb	65	5.0	7.0p				
74	ST35	200m	11M	909u	§	30		2.0		500n	6.0Ø	1.0m	50	60nb	65	5.0	7.0p				
75	ST45	200m	11M	909u	§	45		2.0		20n	6.0Ø	1.0m	50	60nb	65	5.0	7.0p				
76	2N477A	200m	17.M	1.1m	§A	30						1.0mØ	45					GD			
77	2N751	200m	20MΔ	1.3m	§S	20	20	2.0	50m	800nØ	6.0Ø	1.0m	10 △				10pØ				
78	2N2161†	200m	20MΔ	1.6m	§S	55	35	3.0	50m	10nØ	20	1.0mØ	75 △	1.0uØb	80 Ø	20 Ø	3.0pØ		TO5	A	
79#	2SC166†	200m	20.M	1.6m	§J						12	3.0m	105 †				18p		TO1		
80#	2SC167†	200m	20.M	1.6m	§J						12	3.0m	105 †				18p		TO1		
81	A607*	200m	30M§△	1.3m	§J	35	35	5.0	30m	5nØ	5.0Ø	.01mØ	100 †△				6pØ	PL*Ø	L2b		
82	A608*	200m	30M§△	1.3m	§J	35	35	5.0	30m	5nØ	5.0Ø	.01mØ	100 †△				6pØ	PL*Ø	L2b		
83	CDQ10016	200m	30M§	1.1m	§A	15	15	2.0		500n	6.0	1.0m	16	400nb	25	2.1	20p	PL	TO5		Ø
84	CDQ10017	200m	30M§	1.1m	§A	30	30	2.0		500n	6.0	1.0m	16	400nb	25	2.1	20p	PL	TO5		Ø
85	CDQ10018	200m	30M§	1.1m	§A	45	45	2.0		500n	6.0	1.0m	16	400nb	25	2.1	20p	PL	TO5		Ø
86	CDQ10019	200m	30M§	1.1m	§A	15	15	2.0		500n	6.0	1.0m	30	400nb	25	2.2	20p	PL	TO5		Ø
87	CDQ10020	200m	30M§	1.1m	§A	30	30	2.0		500n	6.0	1.0m	30	400nb	25	2.2	20p	PL	TO5		Ø
88	CDQ10021	200m	30M§	1.1m	§A	45	45	2.0		500n	6.0	1.0m	30	b	25		20p	PL	TO5		Ø
89	CDQ10022	200m	30M§	1.1m	§A	15	15	2.0		500n	6.0	1.0m	60	b	25		20p	PL	TO5		Ø
90	LID929	200m	30M§△	1.6m	§J	45	45	5.0		20n	5.0Ø	1.0mØ	60 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	TO122	P	
91	LID930	200m	30M§△	1.6m	§J	45	45	5.0		20n	5.0Ø	1.0mØ	150 △	1.0uØb	32 Ø	6.0 Ø	8.0pØ	PLØ	TO122	P	
92	CDQ10023	200m	39M§	1.1m	§A	30	30	2.0		500n	6.0	1.0m	60	200nb	25	3.0	20p	PL	TO5		Ø
93	CDQ10024	200m	39M§	1.1m	§A	45	45	2.0		500n	6.0	1.0m	60	200nb	25	3.0	20p	PL	TO5		Ø
94	CDQ10026	200m	39M§	1.1m	§A	30	30	2.0		500n	6.0	1.0m	130	150nb	25	3.6	20p	PL	TO5		Ø
95	CDQ10027	200m	39M§	1.1m	§A	45	45	2.0		500n	6.0	1.0m	130	150nb	25	3.6	20p	PL	TO5		Ø
96	2N750	200m	40.M	1.3m	§J	50	50 Ø	1.5	50m	.50uØ	6.0Ø	1.0m	4.0 △	200u	500		4.0p	PD†	u2		
97	A1109	200m	40.M§	2.0m	§J	45		5.0		.10uØ	5.0Ø	1.0mØ	70 †△				8pØ	PL	TO18	AØ	
98	A1341	200m	40M§△	1.6m	§J	75		5.0		.01uØ	10Ø	50mØ	50 †△				10pØ	PL	TO18	AØ	
99	S15650	200m	40M§△	2.0m	♦J	30	25	6.0		.05uØ	10Ø	1.0mØ	150 †△	11u	7.5k	3.0	4pØ	DPL	TO106		
100	ST70000Ø	200m	40M§△	1.3m	§J	30	20	20	10m	.01u							10pØ	PE*	L62		
101	ST70001Ø	200m	40M§△	1.3m	§J	30	20	20	10m	.01u							10pØ	PE*	L62		
102	2N749	200m	50MΔ	1.3m	§S	45	25	1.5	50m	500nØ	6.0Ø	1.0m	30 △				10pØ				
103	A643L*	200m	50M§△	2.0m	♦J	30	30	5.0	30m	100n			150 †☑				3.5p	PL	X56a	A	
104	A643S*	200m	50M§△	2.0m	♦J	30	30	5.0	30m	100n			150 †☑				3.5p	PL	X56	A	
105	A644L*	200m	50M§△	2.0m	♦J	30	30	5.0	30m	100n			300 †☑				3.5p	PL	X56a	A	
106	A644S*	200m	50M§△	2.0m	♦J	30	30	5.0	30m	100n			300 †☑				3.5p	PL	X56	A	
107	A645L*	200m	50M§△	2.0m	♦J	30	30	5.0	30m	100n			600 †☑				3.5p	PL	X56a	A	
108	A645S*	200m	50M§△	2.0m	♦J	30	30	5.0	30m	100n			600 †☑				3.5p	PL	X56	A	
109	A640*	200m	60.M§	2.0m	♦J	30	30	5.0	30m	10u	5.0Ø	.01mØ	100 †☑				3.5p	PL*Ø	X36a		
110	A640L*	200m	60M§	2.0m	♦J	30	30	5.0	30m	100n	5.0Ø	10u	100 †☑				3.5p	PLØ	X56a	A	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION (2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T MAX	E MAX	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E O A D E
1	A640S*	200m	60M§	2.0m	♦J		30	30	5.0	30m	100n	5.0Ø	10u	100 †☑				3.5p	PLØ	X56	A
2	A641*	200m	60.M§	2.0m	♦J		30	30	5.0	30m	.10u	5.0Ø	.01mØ	200 †☑				3.5p	PL*Ø	X36a	
3	A641L*	200m	60M§	2.0m	♦J		30	30	5.0	30m	100n	5.0Ø	10u	200 †☑				3.5p	PLØ	X56a	A
4	A641S*	200m	60M§	2.0m	♦J		30	30	5.0	30m	100n	5.0Ø	10u	200 †☑				3.5p	PLØ	X56	A
5	A642*	200m	60.M§	2.0m	♦J		30	30	5.0	30m	.10u	5.0Ø	.01mØ	400 †☑				3.5p	PL*Ø	X36a	
6	A642L*	200m	60M§	2.0m	♦J		30	30	5.0	30m	100n	5.0Ø	10u	400 †☑				3.5p	PLØ	X56a	A
7	A642S*	200m	60M§	2.0m	♦J		30	30	5.0	30m	100n	5.0Ø	10u	400 †☑				3.5p	PLØ	X56	A
8	A649L*	200m	60.M§	2.0m	♦J		30	30	5.0	30m	1.0n	5.0Ø	10uØ	200 †△				3.5p	PLØ	X56a	A
9	A649S*	200m	60.M§	2.0m	♦J		30	30	5.0	30m	1.0n	5.0Ø	10uØ	200 †△				3.5p	PLØ	X56	A
10#	ME1100	200m	60M§△	1.6m	§J		110	100 *	4.0	200m	6.0uØ	10Ø	10mØ	20 †△				4.0pØ	DPL†	R110c	A
11#	ME1120	200m	60M§△	1.6m	§J		130	120 *	4.0	200m	6.0uØ	10Ø	10mØ	20 †△				4.0pØ	DPL†	R110c	A
12	S6801	200m	60M§△	25m	♦		30	30	6.0	50m	.01uØ	5.0	50mØ	150 #△				6pØ	DPLØ	TO18	AØ
13	S15649	200m	60M§△	2.0m	♦J		30	25	6.0		.05uØ	10Ø	1.0mØ	350 †	15u	15k	4.3	4pØ	DPLØ	TO106	AØ
14	SA2255Ø	200m	60M§△		§J		45	30	7.0		5.0nØ	5.0Ø	50uØ	125 †					PL	L2	
15	TE3843	200m	60M	2.7m			30	30	4.0	100m	500n	4.5Ø	2.0mØ	20 †				4.0p		R97a	
16#	C1002	200m	70M	2.0m	♦		30	30	6.0	50n	20n	5.0Ø	1.0mØ	450 †	20m	10k	4.5	4.0p	PL	TO106	A
17	16L2	200m	80.M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	20 †△				3.5pØ	PLØ	R67	
18	16L22	200m	80.M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	20 †△				3.5pØ	PLØ	R67	
19	16L42	200m	80.M§	2.6m	#J		18	18	4.0	100m	.50u	4.5Ø	2.0mØ	20 †△				3.5pØ	PL	R67	
20	16L62	200m	80.M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	20 †△				3.5pØ	PL	R67	
21#	BC220	200m	80M§	5.0m	♦J		30	25	5.0	50n	50n	5.0Ø	1.0mØ	100 †△	13m	7.4k	2.7	3.0p	DPL	TO106	
22	16L3	200m	86.M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	35 †△				3.5pØ	PLØ	R67	
23	16L23	200m	86.M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	35 †△				3.5pØ	PLØ	R67	
24#	BC295	200m	90M§	5.0m	♦		30	30	6.0	50m	50n	5.0Ø	1.0mØ	60 †△	13u	6.0k	3.0	2.7p	PL	TO106	A
25	TE3844	200m	90M	2.7m			30	30	4.0	100m	500n	4.5Ø	2.0mØ	35 †				4.0p		R97a	
26	TE3859A	200m	90M	2.6m			60	60	6.0	100m	500n	1.0Ø	1.0mØ	75 †				4.0p		R97a	
27#	BC113A	200m	100M§	2.0m	♦		40	40	6.0	50m	50n	5.0Ø	1.0mØ	350 †	23u	10k	4.2	2.9p	PL	TO106	A
28#	BC114A	200m	100M§	2.0m	♦		40	40	6.0	50m	50n	5.0Ø	1.0mØ	350 †	23u	10k	4.2	2.9p	PL	TO106	A
29#	BC132A	200m	100M§	2.0m	♦		40	40	6.0	50m	50n	5.0Ø	1.0mØ	220 †	11u	6.3k	3.0	2.9p	PL	TO106	A
30	TE3854	200m	100M	2.7m			18	18	4.0	100m	500n	4.5Ø	2.0mØ	70 †				3.5p		R97a	
31	TE3854A	200m	100M	2.7m			30	30	4.0	100m	500nØ	4.5Ø	2.0mØ	70 †				3.5p		R97a	
32	16L4	200m	112M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	60 †△				3.5pØ	PLØ	R67	
33	16L24	200m	112M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	60 †△				3.5pØ	PLØ	R67	
34#	BC174	200m	120M§△	2.0m	♦J		64	64	5.0	100m	15nØ	5.0Ø	2.0mØ	125 △*					PE†	X64	A
35	D24A3391	200m	120M§	2.7m	#J		25	25	5.0	100m	100n	10Ø	100u	200	b	15		7.0p	PLØ	X54	
36	D24A3391A	200m	120M§	2.7m	#J		25	25	5.0	100m	100n	10Ø	100u	200	b	15		7.0p	PLØ	X54	
37	16L5	200m	124M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	100 †△				3.5pØ	PLØ	R67	
38	16L25	200m	124M§	2.6m	#J		30	30	4.0	100m	.50uØ	4.5Ø	2.0mØ	100 †△				3.5pØ	PLØ	R67	
39	TE3845	200m	126M	2.7m			30	30	4.0	100m	500n	4.5Ø	2.0mØ	60 †				4.0p		R97a	
40	TE3855	200m	130M	2.7m			18	18	4.0	100m	500n	4.5Ø	2.0mØ	120 †				3.5p		R97a	
41	TE3855A	200m	130M	2.7m			30	30	4.0	100m	500n	4.5Ø	2.0mØ	120 †				3.5p		R97a	
42	D16E7	200m	135M§					25				4.5Ø	2.0mØ	235 †△				2.5p	PL	TO98	
43	D16E9	200m	135M§					30				4.5Ø	2.0mØ	235 †△				2.5p	PL	TO98	
44	TE3859	200m	135M	2.6m			30	30	4.0	100m	500n	4.5Ø	2.0m	100 †				2.5p	PE	R97a	
45#	2SC1285	200m	140M§	2.0m	♦J		40	30	5.0	100m	1.0uØ	6.0Ø	1.0mØ	200 †*				3.0p	E	u45a	B
46	D24A3392	200m	140M§	2.7m	#J		25	25	5.0	100m	100n	4.5Ø	2.0mØ	150 †△	b	15		7.0p$	PL	X54	
47	D24A3393	200m	140M§	2.7m	#J		25	25	5.0	100m	100n	4.5Ø	2.0mØ	90 †△	b	15		7.0p$	PL	X54	
48	D24A3394	200m	140M§	2.7m	#J		25	25	5.0	100m	100n	4.5Ø	2.0mØ	55 †△	b	15		7.0p$	PL	X54	
49#	2SC361	200m	150M§	2.0m	♦J		25	18	5.0	40m	.50uØ	6.0Ø	2.0m	80				6pØ	PL	R67	
50#	2SC362	200m	150M§	2.0m	♦J		25	18	5.0	40m	.50uØ	6.0Ø	2.0m	140				6pØ	PL	R67	
51#	2SC363	200m	150M§	2.0m	♦J		25	18	5.0	40m	.50uØ	6.0Ø	2.0m	250				6pØ	PL	R67	
52#	2SC369G	200m	150M§	2.0m	♦J		25	18	5.0	100m	.10uØ	10Ø	1.0mØ	300 †				1.5p	PEØ	R67a	B
53#	2SC369G/BL	200m	150M§	2.0m	♦J		25	18	5.0	100m	100nØ	10Ø	1.0mØ	250 †△	6.0u	80k	20	1.5p	PEØ	R67a	B
54#	2SC369G/GR	200m	150M§	2.0m	♦J		25	18	5.0	100m	100nØ	10Ø	1.0mØ	150 †△	6.0u	80k	20	1.5p	PEØ	R67a	B
55#	2SC370	200m	150M§	2.0m	♦J		30	25	4.0	100m	1.0uØ	6.0Ø	1.0m	40				2.5p	PE	R67a	B
56#	2SC371	200m	150M§	2.0m	♦J		30	25	4.0	100m	1.0uØ	6.0Ø	1.0m	80				2.5p	PE	R67a	B
57#	2SC374	200m	150M§	2.0m	♦J		30	25	4.0	100m	1.0uØ	6.0Ø	1.0m	400				2.0p	PE	R67a	B
58#	2SC376	200m	150M§	2.0m	♦J		70	70 §	4.0	100m	1.0uØ	6.0Ø	1.0m	60				2.5p	PE	R67a	
59#	2SC377	200m	150M§	2.0m	♦J		35	30	4.0	30m	.50uØ	12Ø	2.0mØ	25 †△*				2.0p	PEØ	R67a	A
60#	2SC712A	200m	150M§	2.0m	♦J		30	25	4.0	100m	1.0uØ	6.0Ø	10mØ	90 †#				2.5p	PE†	TO92	D
61#	2SC868†	200m	150M§	2.0m	♦J		130	40	5.0	30m	100nØ	6.0Ø	1.0mØ	35 †△					PE†	TO92	D
62#	2SC870	200m	150M§	2.0m	♦J		30	25	4.0	30m	.10uØ	6.0Ø	1.0mØ	250 †#	5.0u	75k	3.5	2.5p	PE†Ø	TO92	D
63#	2SC871	200m	150M§	2.0m	♦J		30	25	4.0	30m	.10uØ	6.0Ø	.10mØ	350 †#	5.0u	75k	3.5	2.5p	PE†Ø	TO92	D
64#	2SC903	200m	150M§	2.0m	♦J		35	30	4.0	300m	1.0uØ	2.0Ø	150mØ	100 †#				8.0p	PE†	TO92	D
65#	2SC904	200m	150M§	2.0m	♦J		50	45	4.0	300m	1.0uØ	2.0Ø	150mØ	100 †#				8.0p	PE†	TO92	D
66#	2SC905	200m	150M§	2.0m	♦J		65	60	4.0	300m	1.0uØ	2.0Ø	150mØ	100 †#				8.0p	PE†	TO92	D
67#	BC150	200m	160M§	2.7m	#J		18	18	5.0	100m	200n	10Ø	100uØ	350	23u	90k	60	12pØ	PLØ	TO98	B
68#	BC151	200m	160M§	2.7m	#J		25	25	5.0	100m	200n	10Ø	1.0mØ	180	12u	5.0k	3.3	12pØ	PL	TO98	B
69	D24A3900	200m	160M§	2.7m	#J		18	18	5.0	100m	100n	4.5Ø	2.0mØ	250 †△	b	15		7.0p	PLØ	X54	
70	D24A3900A	200m	160M§	2.7m	#J		18	18	5.0	100m	100n	4.5Ø	2.0mØ	250 †△	b	15		7.0p	PLØ	X54	
71#	2SC350	200m	180M§				30	20	5.0	100m	.01uØ	6.0Ø	10mØ	250 ☑				7.0p	PM	TO1	
72#	2SC350H	200m	180M§△				30	20	5.0	100m	10u	6.0Ø	10mØ	9.0				7.0p	Ø	TO1	
73#	2SA494	200m	200M§	2.0m	♦J		35	30	5.0	30m	1.0uØ	6.0Ø	100uØ	70 †△				4.0p	PE	R67a	B
74#	2SC80	200m	200M§		§J		30	15	3.0	80m	.10u	10Ø	5.0m	55				3.5p	PE	TO17	
75#	2SC370G	200m	200M§	2.0m	♦J		35	30	5.0	100m	.50uØ	1.0Ø	10mØ	20 †△				3.5pØ	PE△	R67a	B
76#	2SC371G	200m	200M§	2.0m	♦J		35	30	5.0	100m	.50uØ	1.0Ø	10mØ	40 †△				3.5pØ	PE△	R67a	B
77#	2SC709	200m	200M§	2.0m	♦J		25	12	4.0	100m	1.0u	6.0Ø	1.0mØ	70 †#				2.5p	PE†	TO92	D
78	4JX16A567	200m	200M§	2.6m	#J		18	18	5.0	100m	500n	10Ø	2.0mØ	400 △	b	15		9.0p	Ø		
79#	BF216	200m	200M§	2.7m	#J		40	35	4.0	20m	500nØ	7.0Ø	1.0mØ	100				1.1p†	PEØ	TO98	B
80	T2857	200m	200M	1.1m	§J		30	20	5.0		.10uØ	10Ø	2.0mØ	15 †△					PEØ	R38	
81#	2SC649	200m	220M§				30	25	6.0	30m	100u	6.0Ø	.10mØ	60 †△				2.5p	Ø	TO1	
82#	2SC650	200m	220M§				30	25	6.0	30m	100u	6.0Ø	.10mØ	100 †△				2.5p	Ø	TO1	
83#	BF218	200m	220M§	2.7m	#J		40	35	4.0	20m	500nØ	7.0Ø	1.0mØ	100				1.1p†	PEØ	TO98	B
84#	2SC454L	200m	230M§				30	30	5.0	100m	.50u	12Ø	2.0mØ	60 †△				1.8p	Ø		
85#	2SC458L	200m	230M§				30	30	5.0	100m	50u	12Ø	2.0mØ	150 †				1.8p	Ø		
86#	AT310	200m	230M§	1.4m	§J		45	30	5.0	30m	500n	12Ø	2.0m	40 †#△				3.5p	PL	TO1	A
87#	AT311	200m	230M§	1.4m	§J		45	30	5.0	30m	500n	12Ø	2.0m	40 †#△				3.5p	PL	TO1	A
88#	AT312	200m	230M§	1.4m	§J		45	30	5.0	30m	500n	12Ø	2.0m	100 †#△				3.5p	PL	TO1	A
89#	AT313	200m	230M§	1.4m	§J		35	20	5.0	30m	500n	12Ø	2.0m	20 †#△				3.5p	PL	TO1	A
90#	AT314	200m	230M§	1.4m	§J		35	20	5.0	30m	500n	12Ø	2.0m	40 †#△				3.5p	PL	TO1	A
91#	AT315	200m	230M§	1.4m	§J		35	20	5.0	30m	500n	12Ø	2.0m	40 †#△				3.5p	PL	TO1	A
92#	AT316	200m	230M§	1.4m	§J		35	20	5.0	30m	500n	12Ø	2.0m	100 †#△				3.5p	PL	TO1	A
93#	BF217	200m	240M§	2.7m	#J		40	35	4.0	20m	500nØ	7.0Ø	1.0mØ	125				1.1p†	PE	TO98	B
94#	2SC37	200m	250M§		§J		40	25	3.0	200m	.10uØ	10Ø	10m	50				4.0p	PE	TO5	
95	2N2954	200m	300M§△	1.1m	§J		30	20	3.0	500m	.05uØ	10Ø	2.0mØ	25 △				3.8			
96	2N3407	200m	300M§△	1.3m	§S		35	18	3.0	100m	.20uØ	10Ø	10mØ	10 △				2.5pØ	Ø	R38	
97#	2SC379	200m	300M§	2.0m	♦J		30	20	4.0	100m	500nØ	10Ø	2.0m	70				2.0p	PE	R67a	B
98#	2SC468H†	200m	300M§△	1.3m	§J		40	15	5.0	200m	.25u	1.0Ø	10mØ	35 †△*				6pØ	PE	R92b	A
99	A646*	200m	300M§△	1.3m	§J		35	35	5.0	30m	.01uØ	5.0Ø	.10mØ	100 †△	80uØ	20kØ		6pØ	PL*Ø	L2b	
100	A1170	200m	300M§△	1.1m	§J		15	10	2.0		.01uØ	1.0Ø	3uØ	10 †△				3pØ	PL	TO18	A
101	NS9728	200m	300M§△	1.3m	§A		30	15	4.0		.01uØ	1.0Ø	3.0mØ	60 †				.8pØ	EØ	R38	
102	NS9729	200m	300M§△	1.3m	§A		20	10	4.0		.01uØ	1.0Ø	3.0mØ	60 †				.8pØ	EØ	R38	
103	NS9730	200m	300M§△	1.3m	§A		15	10	4.0		.01uØ	1.0Ø	3.0mØ	60 †				.8pØ	EØ	R38	
104	NS9731	200m	300M§△	1.3m	§A		10	5.0	4.0		.01uØ	1.0Ø	3.0mØ	60 †				.8pØ	EØ	R38	
105	TE3605†	200m	300M§△	1.6m	§J		18	14	5.0	200m	500n	1.0Ø	10mØ	30 †△				60pØ	DPL	R97a	A
106	TE3606†	200m	300M§△	1.6m	§J		18	14	5.0	200m	500n	1.0Ø	10mØ	30 †△				6.0pØ	DPL	R97a	A
107	TE3607†	200m	300M§△	1.6m	§J		18	14	5.0	200m	500n	1.0Ø	10mØ	30 †△				6.0pØ	DPL	R97a	A
108	16J1†	200m	350M§	2.6m	#J		18	14	5.0	200m	50u	1.0Ø	10mØ	30 †△				6pØ	PE	R67	
109	16J2†	200m	350M§	2.6m	#J		18	14	5.0	200m	.50u	1.0Ø	10mØ	30 †△				6pØ	PE	R67	
110#	BC135A	200m	350M§	3.0m	♦		45	45	5.0		50n	10Ø	10mØ	120 †	35u	800	1.2	2.0p	PE	TO106	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1	16K3	200m	380M§	2.6m		#J	30	30	4.0	25m	.50uØ	9.5Ø	5.0mØ	30 †Δ				1.5p	PLØ	TO98		
2#	2SC464	200m	400M§	1.1m		§J	30	12	2.0	20m	500nØ	6.0Ø	1.0mØ	40				850f	PEØ	R103a		
3#	2SC465	200m	400M§	1.1m		§J	30	12	2.0	20m	500nØ	6.0Ø	1.0mØ	40				850f	PEØ	R103a		
4#	BSW78†	200m	400M§Δ	2.0m		♦J	40	15	4.5	200m	400nØ	1.0Ø	10mØ	20 †Δ#				4.0pØ	PE†	X64	A	
5	S15657	200m	400M§Δ	2.0m		♦J	40	15	4.0		.05uØ	10Ø	2.0mØ	70 †#				4pØ	DPE	TO106		
6	TP4274†	200m	400M§Δ	2.0m		♦J	30	12	4.5	100m	10uØ	1.0Ø	10mØ	35 †Δ#				4.0p$Ø	PL	X55a	A	
7	TP4275†	200m	400M§Δ	2.0m		♦J	40	15	4.5	100m	10uØ	1.0Ø	10mØ	35 †Δ#				4.0p$Ø	PL	X55a	A	
8	FT45	200m	425M§Δ	1.2m		§J	30	30	3.0		.05uØ	5.0Ø	4.0mØ	200 †#Ø				.5pØ	DPL	TO72	G	
9#	2SC388	200m	450M§	2.0m		♦J	20		2.0	20m	500nØ	3.0Ø	8.0m	80				1.6p	PE	R67a	B	
10	u7003	200m	450M§Δ	1.3m		§S	15	6.0	4.0		10u	.50Ø	10mØ	70 †				3pØ	D	TO51		
11#	2SC386	200m	500M§	2.0m		♦J	20		2.0	20m	500nØ	3.0Ø	8.0m	80				1.6p	PE	R67a	B	
12#	2SC934†	200m	500M§			♦J	20	15	5.0	300m	1.0u	5.0Ø	20mØ	100 †					PE	TO104		
13#	BF206	200m	500M§	1.3m		§J	30	20	3.0	20m	1nØ	10Ø	2.0mØ	20 †Δ				.3p†	PE	TO72	G	
14#	BF209	200m	500M§	1.3m		§J	30	20	3.0	20m	1nØ	10Ø	2.0mØ	15 †Δ				.3p†	PEØ	TO72	G	
15#	BSW80†	200m	500M§Δ	2.0m		♦J	40	15	4.5	200m	30uØ†	1.0Ø	10mØ	40 †Δ#				4.0pØ	PE†	X64	A	
16	D1666	200m	500M§	2.6m		♦S	30	12	3.0	25m	500n	10Ø	5.0mØ	20 †Δ				1.5pØ	Ø	TO98		
17#	NKT35219	200m	500M§Δ	1.1m		§J	20	15	3.0	50m	.10uØ	10Ø	1.0mØ	20 †Δ				1.8pØ		TO72	GØ	
18	SE5032	200m	500M§Δ	1.8m		†A	40	30 Ø*	4.0		100nØ	10Ø	5.0mØ	80 †				450f$	DPEØ	TO106	C	
19	TIXS29	200m	500M§Δ	2.0m		$S	40	40	4.0	30m	.10uØ	10Ø	4.0mØ	30 †Δ					PLØ	X20		
20	TIXS30	200m	500M§Δ	2.0m		$S	40	40	4.0	30m	.10uØ	10Ø	4.0mØ	30 †Δ					PL	X20		
21	TIXS31	200m	500M§Δ	2.0m		$S	40	40	4.0	30m	.10uØ	10Ø	4.0mØ	30 †Δ					PL	X20		
22	ST2130	200m	550M§Δ	1.1m		§J	25	12	2.0		500nØ	1.0Ø	3.0mØ	20 †Δ				2.0pØ	PEØ	TO72	G	
23#	121T2	200m	560M§	2.7m		#J	30	30	4.0	25m	.50uØ	9.5Ø	5.0mØ	110 †				1.8pØ	PLØ	TO98		
24#	122T2	200m	560M§	2.7m		#J	30	30	4.0	25m	.50uØ	9.5Ø	5.0mØ	110 †				1.8pØ	PLØ	TO98		
25#	123T2	200m	560M§	2.7m		#J	30	30	4.0	25m	.50uØ	9.5Ø	5.0mØ	110 †				1.8pØ	PLØ	TO98		
26	D16K4	200m	580M§	2.6m		#J	30	30	4.0	25m	500nØ	9.5Ø	5.0mØ	110 †				1.8pØ	PLØ	TO98	B	
27	16K1	200m	585M§	2.6m		#J	30	30	4.0	25m	.50uØ	9.5Ø	5.0mØ	30 †Δ				1.5p	PL	TO98		
28	16K2	200m	585M§	2.6m		#J	30	30	4.0	25m	.50uØ	9.5Ø	5.0mØ	30 †Δ				1.5p	PL	TO98		
29	2N4081	200m	600M§Δ	1.1m		§S	40	40	3.0		20nØ	10Ø	2.0mØ	40 Δ				300f$	Ø	TO104	J	
30	2N4397	200m	600M§Δ	1.1m		§S	40	40	3.0		20nØ	10Ø	2.0mØ	40 Δ				300f$	Ø	TO104	J	
31#	2SC351	200m	600M§	1.6m		§J	40		2.0	20m	500nØ	10Ø	4.0m	50				1.4p	PL	R67a	B	
32#	2SC385	200m	600M§	2.0m		♦J	20		2.0	20m	.50uØ	3.0Ø	8.0mØ	80 †				1.6p	PE	R67a	B	
33#	AT338	200m	600M	2.0m		♦J	30	19	4.0	50m	.50uØ	10Ø	1.0mØ	40 †				2pØ	PE†	MM12a	D	
34#	BF188	200m	600M§	1.3m		§J	50	50	5.0	50m	.01uØ	20Ø	10mØ	25 †Δ					PE	TO72		
35#	BF213	200m	600M§	1.3m		§J	30	20	3.0	20m	10nØ	10Ø	2.0mØ	30 †				.3p†	PE	TO72	G	
36	MD1T918	200m	600M§			$A	30	15	3.0	50m	10nØ	10Ø	4.0mØ	6.0 Δ				1.7pØ		TO122	P	
37	NPC188	200m	600M§	1.3m		§A	50	50 §	5.0	50m	.01uØ	20Ø	10mØ	25 †Δ				.6p†	PE	TO72	J	
38	NS6214	200m	600M§Δ	1.1m		§J	30	15	3.0	50m	.01uØ	1.0Ø	3.0mØ	20 †Δ				2pØ	Ø	X16		
39	TI410	200m	600M§	2.0m		♦J	25	13	3.0	30m	.50uØ	12Ø	10mØ	20 †Δ				1.7pØ	PE	X20		
40#	ZT918	200m	600M§Δ				30	15	3.0					20 †Δ				1.7pØ	Ø	R38		
41	TIXS28	200m	630M§Δ	2.0m		$S	40	40	4.0	30m	.10uØ	10Ø	4.0mØ	30 †Δ					PLØ	X20		
42	D16K1	200m	650M§					30				4.5Ø	4.0mØ	60 †				1.4p	PL	TO98		
43	D16K2	200m	650M§					30				4.5Ø	4.0mØ	60 †				1.4p	PL	TO98		
44	D16K3	200m	650M§					30				4.5Ø	4.0mØ	60 †				1.4p	PL	TO98		
45#	BF212	200m	700M§	1.3m		§J	30	20	3.0	20m	10nØ	10Ø	2.0mØ	45 †				.25p†	PEØ	TO72	G	
46	SE3005	200m	800M§Δ	2.0m		♦J	30	15	4.0		10nØ	10Ø	5.0mØ	45 †Δ#				.85pØ$	DPE	TO106	A	
47	SE3100	200m	800M§	1.8m		†A	30	30 Ø	3.0		200n	10Ø	5.0mØ	80 †				500f$	DPE	TO106	C	
48	SE5036	200m	800M§	1.3m		§J	35	30 Ø	3.0		50nØ	10Ø	5.0mØ	70 †				220f$	DPEØ	TO72	J	
49#	2SC387	200m	900M§	2.0m		♦J	20	12	2.0	50m	500nØ	10Ø	8.0m	100				1.9pØ	PE	R67a	B	
50	S5328E	200m	900M§	1.1m		♥J	30	15	3.0		.10uØ							1.2p	PE	R38		
51	ST2110	200m	950M§Δ	1.1m		§J	25	12	2.0		500nØ	5.0Ø	8.0mØ	20 †Δ				2.0pØ	PEØ	TO18	AØ	
52	TC0918	200m	960MΔ	1.1m		§J	30	15	3.0		.01uØ	3.0Ø	30mØ	20 †Δ				1.7pØ	PEΔ			
53	2N2808	200m	1.0G*	1.1m		§J	30	10	3.0	25m	.01uØ	1.0Ø	2.0mØ	20 †Δ				.7pØ	PLØ	R38		
54	2N2809	200m	1.0G*Δ	1.1m		§J	30	15	3.0	25m	.01uØ	6.0Ø	2.0mØ	20 Δ		250 Ø		.7pØ	Ø	R38		
55	2N2810	200m	1.0G*Δ	1.1m		§J	24	10	3.0	25m	.01uØ	6.0Ø	2.0mØ	20 Δ		250 Ø		.7pØ	Ø	R38		
56#	2SC387G	200m	1.0G§	2.0m		♦J	20	12	2.0	50m	500nØ	3.0Ø	8.0mØ	60 †				1.9pØ	PE	R67a	B	
57	40517	200m	1.0G§Δ	1.1m		§J	30	15	2.5	40m	.01uØ	6.0Ø	2.0mØ	50 Δ				1.5pØ	PEØ	TO72	G	
58	40518	200m	1.0G§Δ	1.1m		§J	30	15	2.5	40m	.01uØ	6.0Ø	2.0mØ	50 Δ				1.5pØ	PEØ	TO72	G	
59	A489	200m	1.0G§	1.1m		J	28	15	2.5	20m		1.0Ø	3.0mØ	20 †Δ				1.7 $Ø		TO72	G	
60#	BFY90B	200m	1.0G§Δ	1.1m		§J	28	15	2.5	20m		1.0Ø	3.0mØ	20 †Δ				1.7pØ	PEØ	TO72	G	
61	ST2120	200m	1.0G§Δ	1.1m		§J	30	15	4.0		5.0nØ	1.0Ø	3.0mØ	50 †Δ				1.7pØ	PEØ	TO72	G	
62	40295	200m	1.2G§Ø	1.1m		§J	35	20	3.0	40m	.01uØ	2.0Ø	2.0mØ	200 †Ø				1p$Ø	PEØ	TO72	G	
63	2N2809A	200m	1.3G*Δ	1.1m		§J	30	15	3.0	25m	.01uØ	6.0Ø	2.0mØ	20 Δ		250 Ø		.7pØ	Ø	R38		
64	2N2810A	200m	1.3G*Δ	1.1m		§J	24	10	3.0	25m	.01uØ	6.0Ø	2.0mØ	20 Δ		250 Ø		.7pØ	Ø	R38		
65	2N2808A	200m	1.5G*Δ	1.1m		§J	30	10	3.0	25m	.01uØ	6.0Ø	2.0mØ	20 Δ		250 Ø		.7pØ	Ø	R38		
66	TIX09	200m	1.5G§	1.1m		§S	30	15	3.0	50m	.01uØ	6.0Ø	5.0mØ	20 Δ				1.7pØ	PE	u26		
67	TIX10	200m	1.5G§	1.1m		§S	25	13	3.0	50m	.01u	6.0Ø	5.0mØ	20 Δ				1.7pØ	PE	u26		
68	TIXS09	200m	1.5G§	1.0m		§S	30	15	3.0	50m	10nØ	6.0Ø	5.0mØ	20 Δ				1.5pØ	PE	u26		
69#	BFS57	200mØ	1.7G	1.6mØ		$A	25	15	3.0	50m	10nØ	6.0Ø	5.0mØ	20 Δ				600f$	PE	u51	G	
70	TI3016	200m	1.7G§	1.1m		§J	30	15	3.0	30m	.01u	6.0Ø	5.0mØ	20 †Δ				1.7pØ	PE	TO50		
71	TIX3016	200m	1.7G§	1.1m		§S	30	15	3.0	50m	.01uØ	6.0Ø	5.0mØ	20 †Δ				1.7pØ	EPØ	u26a		
72	TIX3016A	200m	1.7G§	1.1m		§J	30	15	3.0	30m	10n	6.0Ø	5.0mØ	20 †Δ				1.7pØ	PE	u26		
73	40296	200m	2.0G§Ø	1.1m		§J	30	15	2.5	40m	.01uØ	6.0Ø	2.0mØ	220 Ø				1p$Ø	PEØ	TO72	G	
74#	BFS58	200mØ	2.4GØ	1.6mØ		$A	25	15	3.0	50m	20nØ	6.0Ø	5.0mØ	20 Δ				600f$	PE	u51	G	
75#	V415	200m	3.0G§	1.6m		§J	28	15	3.0	60m	.50uØ							.50p	PE	X63	GD	
76#	2SC985	200m	3.2G§	1.6m		§J	20	15	3.0	40m	.50uØ	5.0Ø	15mØ	30 †Δ				1pØ	PE	X80	GJ	
77#	BFR34	200m	3.3G§			§J		12	3.5	30m	50nØ	6.0Ø	5.0mØ	25 †Δ				750f$	PEØ	X87	D	
78#	BFR35	200m	3.3G§	1.2m		♦J		12	3.5	30m	50n	6.0Ø	5.0mØ	70				700f$	PE	u56a	A	
79	AT16	200m	3.5G§	1.1m		§J	20	12	3.0	100m	10nØ	10Ø	5.0mØ	75 †					PEØ	TO72	G	
80	AT17	200m	3.5G§	1.1m		§J	20	12	3.0	100m	10nØ	10Ø	5.0mØ	75 †				800f$	PEØ	TO72	G	
81	AT17A	200m	3.5G§	1.1m		§J	20	12	3.0	100m	10nØ	10Ø	5.0mØ	75 †				800f$	PEØ	TO72	G	
82	AT25	200m	3.5G§	1.1m		§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$Ø	PEØ	TO72	G	
83	AT25A	200m	3.5G§	1.1m		§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$Ø	PEØ	TO72	G	
84	AT25B	200m	3.5G§	1.1m		§J	20	15	3.0	100m	20nØ	10Ø	10mØ	75 †				500f$Ø	PEØ	TO72	G	
85	AT101	200m	4.0G§	1.1m		§J	20	15	3.0	30m	20nØ	10Ø	3.0mØ	50 †				350f$Ø	PEØ	u77c	Y	
86	AT101A	200m	4.0G§	1.1m		§J	20	15	3.0	30m	20nØ	10Ø	3.0mØ	50 †				350f$Ø	PEØ	u77c	Y	
87	AT140	200m	4.0G§	1.1m		§J	20	12	3.0	30m	10nØ	10Ø	3.0mØ	50 †				300f$Ø	PEØ	u77d	Y	
88	AT141	200m	4.0G§	1.1m		§J	20	12	3.0	30m	10nØ	10Ø	3.0mØ	50 †				300f$Ø	PEØ	u77d	Y	
89	AT201	200m	4.0G§	1.1m		§J	20	15	3.0	30m	20nØ	10Ø	15mØ	50 †				500f$	PEØ	u77c	GJ	
90#	DC5203	200m	5.5G§	1.6m		§J	15	15	3.0	20m	300n	5.0Ø	2.0m	30				600f		u114	R	
91	A747C	220m	600k§	2.0m		♦J		50	6.0	100m		5.0Ø	2.0mØ	600				2.5p$	PE†	MM10	A	
92	A757	220m	130M	2.0m			50	45	5.0	200m		5.0Ø	2.0mØ	140 †					PE	MM10		
93#	BC167Ø	220m	250M§	2.2m		♦J	45	45	5.0	100m	700pØ	5.0Ø	2.0mØ	125 Δ*					PE†	X73	D	
94#	BC168Ø	220m	250M§	2.2m		♦J	20	20	5.0	100m	1.0n	5.0Ø	2.0mØ	125 Δ*					PE†	X73	D	
95	BC237Ø	220m	250M§	2.2m		♦J	45	45	5.0	100m	700pØ	5.0Ø	2.0mØ	125 Δ*					PE†	X73	A	
96	BC238Ø	220m	250M§	2.2m		♦J	20	20	5.0	100m	1.0n	5.0Ø	2.0mØ	125 Δ*					PE†	X73	A	
97#	BC147Ø	220m	300M§	2.2m		♦J	50	45	6.0	100m	5.0uØ†	5.0Ø	2.0mØ	210 *	18u	3.0k	1.0	2.4p$	PE	MM11	A	
98#	BC148Ø	220m	300M§	2.2m		♦J	30	20	5.0	100m	5.0uØ†	5.0Ø	2.0mØ	210 *	18u	3.0k	1.0	2.4p$	PE	MM11	A	
99#	BC149Ø	220m	300M§	2.2m		♦J	30	20	5.0	100m	5.0uØ†	5.0Ø	2.0mØ	210 *	18u	3.0k	1.0	2.4p$	PEØ	MM11	A	
100#	BC169Ø	220m	300M§	2.2m		♦J	20	20	5.0	100m	1.0n	5.0Ø	2.0mØ	240 Δ*					PE†	X73	D	
101	BC239Ø	220m	300M§	2.2m		♦J	20	20	5.0	100m	1.0n	5 Ø	2.0mØ	240 Δ*					PE†	X73	A	
102	A3T929	225m	30M§Δ	1.8m		$S	45	45	6.0	50m	.01u	5.0Ø	1.0mØ	60 Δ	40uØ	11kØ	8 Ø	6pØ	PL†Ø	u44	A	
103	A3T930	225m	30M§Δ	1.8m		$S	45	45	6.0	50m	.01u	5.0Ø	1.0mØ	150 Δ	60uØ	18kØ	8 Ø	6pØ	PL†	u44	A	
104#	BSS19	225m	50M§Δ	1.8m		$S	120	120	6.0	50m	10u	2.0Ø	4.0mØ	30 †Δ				2.0p	PEΔ	u94	D	
105#	BSS20	225m	50M§Δ	1.8m		$S	160	160	6.0	50m	10u	2.0Ø	4.0mØ	30 †Δ				2.0p	PEΔ	u94	D	
106	A3T2484	225m	60M§Δ	1.8m		$S	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	150 Δ	100uØ	30kØ	8 Ø	6pØ	PL†	u44	A	
107	PET8005	225m	200M§	2.3m		♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	30 †Δ					PL	R110	A	
108	PET8005A	225m	200M§	2.3m		♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	30 †Δ					PLØ	R110	A	
109	PET8006	225m	200M§	2.3m		♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	55 †Δ					PL	R110	A	
110	PET8006A	225m	200M§	2.3m		♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	55 †Δ					PLØ	R110	A	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 s/a TO200 Ser.	E O A D D E
1	PET8007	225m	200M§	2.3m	♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	100 †Δ					PL	R110	A
2	PET8007A	225m	200M§	2.3m	♦J	30	30	4.0	100m	.05uØ	10Ø	2.0mØ	100 †Δ					PLØ	R110	A
3	A3T2221†	225m	300M§	1.8m	§S	60	30	5.0	500m	.01uØ	10Ø	1.0mØ	25 †Δ				4.0p	PE†	u44	A
4	A3T2221A†	225m	300M§	1.8m	§S	75	40	6.0	500m	.01uØ	10Ø	10mØ	35 Δ	100uØ	1kØ	2.5 Ø	4.0p	PE†	u44	A
5	A3T2222†	225m	350M§	1.8m	§S	60	30	5.0	500m	.01uØ	10Ø	1.0mØ	50 †Δ				4.0p	PE†	u44	A
6	A3T2222A†	225m	350M§	1.8m	§S	75	40	6.0	500m	.01uØ	10Ø	10mØ	75 Δ	200uØ	1.2kØ	4 Ø	4.0p	PE†	u44	A
7	A3T3011†	225m	400M§Δ	1.8m	§S	30	12	5.0	200m	.40u§	.35Ø	10mØ	30 †Δ#				4pØ	PE†	u44	A
8	A3T918	225m	600M§Δ	1.8m	§S	30	15	3.0	50m	.01uØ	1.0Ø	3.0mØ	20 †Δ				3p§Ø	PE†Ø	u44	A
9#	BSW88†	230m*	200M§Δ	2.9m	♦J	35	30	5.0	100m	.05uØ	1.0Ø	10mØ	100 †Δ*				6pØ	PE†	X73	C
10#	BSW89†	230m*	200M§Δ	2.9m	♦J	35	30	5.0	100m	.05uØ	1.0Ø	10mØ	100 †Δ*				6pØ	PE†	X73	A
11#	BSX81†	230m*	200M§Δ	2.9m	♦J	35	30	5.0	100m	.05uØ	1.0Ø	10mØ	100 †Δ*				6pØ	PE†	MM11	A
12	A472	230m	550M§	1.5m	§J	40	35 §	4.0	25.m	uØ	10	7.0m	150 †					PLEØ	TO72	J
13#	BF208	230m	600M§	1.5m	§J	40	25	4.0	25m	.10uØ	10Ø	7.0mØ	100 †				.23p†	PE	TO72	G
14#	NPC173	230m	600M§	1.5m	§S	40	25	4.0	25m	.01u	10Ø	7.0mØ	88				2.0p	PL	TO72	J
15	2N959	250mØ			§J	25	15	5.0		.50u	10Ø	10mØ	2.0				7pØ	ME	u5	
16#	2SC924	250m			§J	30	15	5.0	50m	100n	3.0Ø	500uØ	100 †					PE	TO92	B
17	CI2711	250m		2.0m	§J	18	18	5.0	100m	500n	4.5Ø	2.0mØ	30 Δ					DPL†	R127a	D
18	CI2712	250m		2.0m	§J	18	18	5.0	100m	500n	4.5Ø	2.0mØ	80 Δ					DPL†	R127a	D
19	CI2713	250m		2.0m	§J	18	18	5.0	200m	500n	4.5Ø	2.0mØ	30 Δ				5.0pØ	DPL†	R127a	D
20	CI2714	250m		2.0m	§J	18	18	5.0	200m	500n	4.5Ø	2.0mØ	80 Δ				5.0pØ	DPL†	R127a	D
21	CI2923	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	90 Δ				12pØ	DPL†	R127a	D
22	CI2924	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	150 Δ				12pØ	DPL†	R127a	D
23	CI2925	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	235 Δ				12pØ	DPL†	R127a	D
24	CI2926	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	35 Δ*				12pØ	DPL†	R127a	D
25	CI3390	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	400 Δ				10pØ	DPL†	R127a	D
26	CI3391	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10pØ	DPL†	R127a	D
27	CI3391A	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10pØ	DPL†	R127a	D
28	CI3392	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 Δ				10pØ	DPL†	R127a	D
29	CI3393	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	90 Δ				10pØ	DPL†	R127a	D
30	CI3394	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	55 Δ				10pØ	DPL†	R127a	D
31	CI3395	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 Δ*				12pØ	DPL†	R127a	D
32	CI3396	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	90 Δ*				12pØ	DPL†	R127a	D
33	CI3397	250m			§J	25	25	5.0	100m	100nØ	4.5Ø	2.0 Ø	55 Δ*				12pØ	DPL†		B
34	CI3398	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	55 Δ*				12pØ	DPL†	R127a	D
35	CK398	250m		1.7m	§J	120	120	8.0	50m	.50uØ	1.0Ø	5.0mØ	20 †Δ					PDΔ	TO5	
36	PMT115	250m		1.3m	§J	80	50 §	8.0		.50uØ	10Ø	150m	40 †Δ				18pØ	ME	u6	
37	PMT124	250mØ		2.0m	§J	30	20 §	5.0		1.0u	10Ø	150mØ	20 #Δ				45pØ	MEΔ	u6	
38	PMT224	250mØ		2.0m	§J	30	20 §	5.0		1.0u	10Ø	150mØ	20 #Δ				45pØ	MEΔ	TO51	
39	TE2711	250m		2.0m	§J	18	18	5.0	100m	500n	4.5Ø	2.0mØ	30 Δ				12pØ	DPL†	TO106	A
40	TE2712	250m		2.0m	§J	18	18	5.0	100m	500n	4.5Ø	2.0mØ	80 Δ				4.5p	DPL†	TO106	A
41	TE2713	250m		2.0m	§J	18	18	5.0	200m	500n	4.5Ø	2.0mØ	30 Δ					DPL†	TO106	A
42	TE2714	250m		2.0m	§J	18	18	5.0	200m	500n	4.5Ø	2.0mØ	80 Δ					DPL†	TO106	A
43	TE2715	250m		2.0m	§J	18	18	5.0	50m	500n	4.5Ø	2.0mØ	30 Δ				5.0pØ	DPL†	TO106	A
44	TE2716	250m		2.0m	§J	18	18	5.0	50m	500n	4.5Ø	2.0mØ	80 Δ				5.0pØ	DPL†	TO106	A
45	TE2921	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	35 Δ				12pØ	PL†	TO106	A
46	TE2922	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	55 Δ				12pØ	PL†	TO106	A
47	TE2923	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	90 Δ				12pØ	PL†	TO106	A
48	TE2924	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	150 Δ				12pØ	PL†	TO106	A
49	TE2925	250m		2.0m	§J	25	25	5.0	100m	500n	10Ø	2.0mØ	235 Δ				12pØ	PL†	TO106	A
50	TE3390	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	400 Δ				10pØ	PL†	TO106	A
51	TE3391	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10pØ	PL†	TO106	A
52	TE3391A	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	250 Δ				10pØ	DPLØ	TO106	A
53	TE3392	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 Δ				10pØ	PL†	TO106	A
54	TE3393	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	90 Δ				10pØ	PL†	TO106	A
55	TE3394	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	55 Δ				10pØ	PL†	TO106	A
56	TE3395	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	150 Δ*				12pØ	DPL	R97a	A
57	TE3396	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	90 Δ*				12pØ	DPL	R97a	A
58	TE3397	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	55 Δ*				12pØ	DPL	R97a	A
59	TE3398	250m		2.0m	§J	25	25	5.0	100m	100nØ	4.5Ø	2.0mØ	55 Δ*				12pØ	DPL	R97a	A
60	TE3707	250m		2.0m	§J	30	30	6.0	30m	100nØ	5.0Ø	100uØ	100 Δ					DPLØ	TO106	A
61	TE3708	250m		2.0m	§J	30	30	6.0	30m	100nØ	5.0Ø	100uØ	45 Δ					DPLØ	TO106	A
62	TE3709	250m		2.0m	§J	30	30	6.0	30m	100nØ	5.0Ø	100uØ	45 Δ					DPLØ	TO106	A
63	TE3710	250m		2.0m	§J	30	30	6.0	30m	100nØ	5.0Ø	100uØ	90 Δ					DPLØ	TO106	A
64	TE3711	250m		2.0m	§J	30	30	6.0	30m	100nØ	5.0Ø	100uØ	180 Δ					DPLØ	TO106	A
65	2N1074	250m	.20M	1.9m	§	50		20	50m	1.0u	5.0Ø	5.0mØ	14				65p	A		
66	2N1077	250m	200kΔ	1.8m	§S	50	35	20	50m	1.0uØ	6.0	1.0m	9.0 †Δ	20uØ	3.5kØ		70pØ		TO5	A
67	2N1075	250m	.30M	1.9m	§	50		20	50m	1.0u	5.0Ø	5.0mØ	25				65p	A		
68	2N1076	250m	.40M	1.9m	§	50		20	50m	1.0u	5.0Ø	5.0mØ	50				65p	A		
69#	EW721	250m	.80M	2.0m	§J	45		1.0	25m	1.0u	6.0Ø	1.0mØ	15	.50u	45	2.0	5.5			
70	TIS85	250m	3.5M§Δ	2.0m	§S	40	30 Ø*	4.0	50m	50nØ	10Ø	4.0mØ	25 †Δ				400ft†Ø	PL†Ø	X55	C
71	PMT220	250mØ	6.0M	1.7m	§J	45		1.0	25m	2.0u	5.0	1.0m	63				1.0p	GD	TO51	
72#	2SC192	250m	10.M		§J	60		1.0	10m	2.0u	20	1.0m	21	.15u	60	1.2	3.0p	G	TO5	
73#	2SC195	250m	10.M		§J	30		1.0	10m	1.0u	20	1.0m	21	.15u	60	1.2	3.0p	G	TO5	
74	CK419	250m	10.MΔ	1.9m	§J	50	40	5.0	50m	.10uØ	1.5Ø	5.0mØ	15 †				5.0p	PDΔ	TO5	
75	CK420	250m	10.MΔ	1.9m	§J	50	35	5.0	50m	.10uØ	1.5Ø	5.0mØ	30 †				5.0p	PDTΔ	TO5	
76	CK421	250m	10.MΔ	1.9m	§J	50	30	5.0	50m	.10uØ	1.5Ø	5.0mØ	60 †				5.0p	PDTΔ	TO5	
77	CK422	250m	10.MΔ	1.9m	§J	50	35	5.0	50m	.10uØ	1.5Ø	5.0mØ	25 †				10p	PDØΔ	TO5	
78	CK474	250m	10.MΔ	1.9m	§J	50	40	5.0	50m	1.0uØ	5.0Ø	5.0mØ	15	7.5u	1.0k		5.0p	PD	TO5	
79	CK475	250m	10.MΔ	1.9m	§J	50	35	5.0	50m	1.0uØ	5.0Ø	5.0mØ	28	10u	1.7k		5.0p	PD	TO5	
80	CK476	250m	10.MΔ	1.9m	§J	50	30	5.0	50m	1.0uØ	5.0Ø	5.0mØ	60	15u	1.7k		5.0p	PD	TO5	
81	CK477	250m	10.MΔ	1.9m	§J	50	35	5.0	50m	1.0uØ	5.0Ø	5.0mØ	25	10u	2.5k		5.0p	PD	TO5	
82	801B	250m	20M§Δ	2.0m	§A	45		3.0	20m	1.0u	20	1.0m	50 Δ	1.0uØb	55	20 Ø	4.0pØ		TO5	A
83#	ST721	250m	20M	2.0m	§J	45			25m	10u	6.0Ø	1.0mØ	15	500nb	45	2.0	5.5p	Dt△	R3	
84	USAF501ES001M†	250m	20M§Δ	2.0m	§J	45	30	3.0	20m	1.0u	20Ø	1.0m	50 Δ	1.0uØb	80 Ø	20 Ø	4.0pØ	GD	TO39	
85#	EW722	250m	23.M	2.0m	§J	45		1.0	25m	1.0u	6.0Ø	1.0mØ	30	.45u	45	4.0	5.5			
86#	ST722	250m	23M	2.0m	§J	45			25m	10u	6.0Ø	1.0mØ	30	450nb	45	4.0	5.5p	Dt△	R3	
87#	EW723	250m	28.M	2.0m	§J	45		1.0	25m	1.0u	6.0Ø	1.0mØ	50	.40u	50	5.0	5.5			
88#	ST723	250m	28M	2.0m	§J	45			25m	10u	6.0Ø	1.0mØ	50	400nb	50	5.0	5.5p	Dt△	R3	
89#	2SC193	250m	30.M		§J	60		1.0	10m	2.0u	20	1.0m	21	.15u	60	1.2	3.0p	G	TO5	
90#	2SC196	250m	30.M		§J	30		1.0	10m	1.0u	20	1.0m	21	.15u	60	1.2	3.0p	G	TO5	
91	CS929	250m	30M§Δ			45	45	5.0		10u	5.0Ø	1.0mØ	60 Δ	1.0nb	32 Ø	6.0 Ø	8.0pØ	PLØ	R97a	
92	CS930	250m	30M§Δ			45	45	5.0	30m	10u	5.0Ø	1.0mØ	150 Δ	1.0uØb	32 Ø	6.0 Ø	8.0	PLØ	R97a	
93	USAF518ES066M*	250m	30M§Δ	1.4m	§J		70	7.0	30m	10nØ	5.0Ø	1.0mØ	155 Δ	1.0uØb	32 Ø	8.0 Ø	8.0pØ	DPL*	TO89	
94	USAF519ES067M	250m	30M§Δ	1.4m	§J	70	45	7.0	30m	10nØ	5.0Ø	1.0mØ	155 Δ	1.0uØb	32 Ø	8.0 Ø	8.0pØ	DPL*	X34	
95	USAF519ES068M	250m	30M§Δ	1.4m	§J	70	45	7.0	30m	10nØ	5.0Ø	1.0mØ	155 Δ	1.0uØb	32 Ø	8.0 Ø	8.0pØ	DPL*	X34	
96	2N2673	250m	40M	1.6m	§S	60	45	3.0	25m	100nØ	5.0Ø	1.0mØ	8.0 †Δ	1.0uØb	60	7.5	4.0pØ		TO46	
97	2N2674	250m	40M	1.6m	§S	60	45	3.0	25m	100nØ	5.0Ø	1.0mØ	12 †Δ	1.0uØb	60	7.5	4.0pØ		TO46	
98	2N2675	250m	40M	1.6m	§S	60	45	3.0	25m	100nØ	5.0Ø	1.0mØ	22 †Δ	1.0uØb	60	7.5	4.0pØ		TO46	
99	2N2676	250m	40M	1.6m	§S	60	45	3.0	25m	100nØ	5.0Ø	1.0mØ	45 †Δ	1.0uØb	60	7.5	4.0pØ		TO46	
100	GME4001	250m	40M§Δ	2.0m	§J	30	25	8.0		.05uØ	10Ø	1.0mØ	60 †Δ				3pØ	DPL	X45	
101	2N2677	250m	50M	1.6m	§S	45	35	2.0	25m	100nØ	5.0Ø	10mØ	20 †Δ	1.0uØb	60	7.5	3.0pØ		TO46	
102#	2SC18	250m	50.M	1.7m	§J	20	20 Ø	2.0	30m	.10uØ	6.0Ø	1.0mØ	12 †				6.0p	PL	TO18	
103#	2SC191	250m	50.M		§J	60		1.0	10m	2.0u	20	1.0m	21	.15u	60	1.2	3.0p	G	TO5	
104#	2SC194	250m	50.M		§J	60		1.0	10m	2.0u	20	1.0m	21	.15u	60	1.2	3.0p	G	TO5	
105#	2SC197	250m	50.M		§J	30		1.0	10m	1.0u	20	1.0m	21	.15u	60	1.2	3.0p	G	TO5	
106#	BCY51I	250m	50M§Δ	1.6m	§J	30	20	5.0	100m	50nØ	1.5Ø	100nØ	60 †Δ	10u	4.2k	25		PL	TO18	Ø

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] MAX. COLL. DISS. @25°C (W)	[2] fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C O D E	A D E
1#	BFY51I	250m	50M§△	1.7m	§J		30	20	5.0	100m	.05uØ	1.5Ø	.10mØ	60 †△								
2#	BSV51	250m	50M§△	2.0m	§J		100	80 *	7.0	200m	500u	10Ø	2.0mØ	30 †△				3.5p	PE†	MM11		A
3#	AT353	250m	60M§△	2.0m	§J		45	45	6.0	30m	100n	10Ø	1.0m	60 †#△				6.0pØ	PEØ†	MM12a		D
4#	AT354	250m	60M§△	2.0m	§J		45	45	6.0	30m	100n	10Ø	1.0m	200 †#△				6.0pØ	PEØ†	MM12a		D
5#	BCY50I	250m	60M§△	1.6m	§J		10	5.0	3.0	100m	5.0nØ	1.5Ø	100nØ	60 †△	10u	4.2k	25		PL	TO18		Ø
6#	BFY50I	250m	60M§△	1.6m	§J		10	5.0	3.0	100m	5.0nØ	1.5Ø	100uØ	60 †△	10u	4.2k	25		PL	TO18		
7	CS2483	250m	60M§△				60	60	6.0	50m	.01uØ	5.0Ø	.01mØ	40 †△				6pØ	PE	R97a		
8	GME4002	250m	60M§△	2.0m	§J		30	25	8.0		.05uØ	10Ø	1.0mØ	200 †△				3pØ	DPL	X45		
9	GME4003	250m	60M§△	2.0m	§J		30	25	8.0		.05uØ	10Ø	1.0mØ	300 †△				3pØ	DPLØ	X45		
10	2N2678	250m	70M	1.6m	§S		45	35	2.0	25m	100nØ	5.0Ø	10mØ	45 †△	1.0uØb	60	7.5	3.0pØ		TO46		
11	MT696	250m	80.M§	1.7m	§J		60		5.0		1.0u	10Ø	150mØ	40 †				20p	PE	u13		
12	MT697	250m	80.M§	1.7m	§J		60		5.0		1.0u	10Ø	150mØ	80 †				20p	PE	u13		
13	MT698	250m	80.M§	1.7m	§J		120		7.0		2.0u	10Ø	150mØ	40 †				15p	PE	u13		
14	MT699	250m	80.M§	1.7m	§J		120		5.0		2.0u	10Ø	150mØ	80 †				14p	PE	u13		
15	MT1613	250m	80.M§	1.7m	§J		75		7.0		.01u	10Ø	150mØ	80				18p	PL	u13		
16	MT1711	250m	80.M§	1.7m	§J		75		7.0		.01u	10Ø	150mØ	200 †				25p	PE	u13		
17#	2SC16	250m	100M§△	1.7m	§J		25	20 §	5.0	30m	2.5uØ	1.0Ø	10mØ	25 †				7pØ	PL	TO18		
18#	2SC16A	250m	100M§△	1.7m	§J		25	20 §	5.0	30m	1.0uØ	1.0Ø	10mØ	30 †				7pØ	PL	TO18		
19#	AT329	250m	100M§	2.5m	♦J		20	20	5.0	250m	.50u	2.0Ø	150m	60 #†△				6.0p	PL†	MM12a		D
20#	AT336	250m	100M△§	2.5m	♦J		20	20	5.0	250m	500n	2.0Ø	150mØ	60 △					PL	MM12a		D
21	MT870	250m	100M§	1.7m	§J		100		7.0		.01u	10Ø	150mØ	80 †				15p	PE	u13		
22	MT871	250m	100M§	1.7m	§J		100		7.0		.01u	10Ø	150mØ	200 †				15p	PE	u13		
23	MT910	250m	100M§	1.6m	§J		100		7.0		25n	5.0Ø	1.0mØ	100 †				15p	PE	u13		
24	MT911	250m	100M§	1.6m	§J		100		7.0		25n	5.0Ø	1.0mØ	50 †				15p	PE	u13		
25	MT912	250m	100M§	1.6m	§J		100		7.0		25n	5.0Ø	1.0mØ	30 †				15p	PE	u13		
26	MT1893	250m	100M§	1.7m	§J		120		7.0		.01u	10Ø	150mØ	80 †				15pØ	PE	u13		
27#	2SC17	250m	150M§	1.7m	§J		20	20 §	5.0	50m	2.5uØ	6.0Ø	2.0mØ	30				4.0p	PL	TO18		
28#	2SC17A	250m	150M§	1.7m	§J		25	20 §	5.0	50m	1.0uØ	10Ø	10m	30				4.0p	PL	TO18		
29#	2SC360	250m	150M§		§J		30	18	5.0	100m	1.0uØ	10Ø	10m	100				7pØ	PL	TO18		
30#	2SC899	250m	150M§△		§J		50	25	5.0	30m	100n	3.0Ø	500uØ	115 †					PE	TO92		B
31#	BFY39I	250m	150M§	1.6m	§J		45	25	5.0	100m	50n	10Ø	10mØ	35 †△	8.0u	3.2k	30	5.0p	PL	TO18		
32	PMT218	250mØ	150M	1.7m	§J		60		5.0		1.0u	10Ø	150mØ	75 †				20p	ME△	TO51		
33	PMT219	250mØ	150M	1.7m	§J		60		5.0		1.0u	10Ø	150mØ	75 †				20p	ME△	TO51		
34	2N958	250m	200M		§J		25	15	5.0		10u	10Ø	10mØ	2.0 △				7pØ	ME	u5		
35	2N2214	250mØ	200M		§J		25	15	5.0		5.0nØ	1.0Ø	10mØ	2.0 △				7.0pØ	PL	TO51		
36#	2SC103	250m	200M§△	1.7m	§J		25	20 §	5.0	50m	1.0uØ	1.0Ø	10mØ	35 †				7pØ	PL	TO18		
37#	2SC120	250m	200M§		♦J		40		1.0	25m	100nØ	10Ø	50uØ	40 †	100nb	27	2.0	4.0p	PL	TO39		
38#	2SC121	250m	200M§	1.7m	§J		40	25	1.0	25m	1.0uØ	10Ø	1.0m	40				4.0p	PL	TO39		
39#	2SC122	250m	200M§	1.7m	§J		40	25	1.0	25m	1.0uØ	10Ø	1.0m	90				4.0p	PL	TO39		
40#	2SC123	250m	200M§	1.7m	§J		40	25	1.0	25m	1.0uØ	10Ø	1.0m	140				4.0p	PL	TO39		
41#	2SC124	250m	200M§	1.7m	§J		40	25	1.0	25m	.20uØ	10Ø	.05mØ	40 †				4.0p	PL	TO39		
42#	2SC127	250m	200M§	1.7m	§J		20			25m	2.0uØ	10Ø	1.0m	150				4.0p	PL	TO39		
43	GME2001	250m	200M§△	2.5m	♦J		35	20	4.0		.05uØ	1.0Ø	10mØ	40 †△				5pØ	DPL	X45		
44	GME2002	250m	200M§△	2.5m	♦J		35	20	4.0		.05uØ	1.0Ø	10mØ	100 †△				5pØ	DPL	X45		
45#	ME1001	250m	200M§△	2.0m	§J		45	45 *	4.0		50nØ	10Ø	10mØ	40 †△				2.5pØ	PL	R110c		A
46#	ME1002	250m	200M§△	2.0m	§J		45	45 *	4.0		50nØ	10Ø	10mØ	100 †△				2.5pØ	PL	R110c		A
47	MT753	250m	200M	1.7m	§J		25		5.0		.50u	1.0Ø	10mØ	80				5.0p	ME	u13		
48	PMT1787M	250mØ	200M	7.7m	§J		25		5.0	200m	50u	10Ø	.10mØ	40 †△				5.0p	PL	u7		
49	PMT1787T	250mØ	200M	7.7m	§J		25		5.0	200m	.50u	10Ø	.10mØ	40 †△				5.0p	PL	u7		
50#	AT326	250m	220M§	2.5m	♦J		30	25	6.0	30m	.10u	10Ø	1.0m	60 #†△				2.8p	PE†	MM12a		D
51#	AT327	250m	220M§	2.5m	♦J		30	25	6.0	30m	.10u	10Ø	1.0m	200 #†△				2.8p	PE†	MM12a		D
52#	AT328	250m	220M§	2.5m	♦J		30	25	6.0	30m	.10u	10Ø	1.0m	200 #†△				2.8p	PE†Ø	MM12a		D
53#	AT330	250m	220M§	2.5m	♦J		30	25	6.0	30m	.10u	10Ø	1.0m	60 #†△				2.8p	PE†	MM12a		A
54#	AT337	250m	220M§	2.5m	♦J		30	25	6.0	30m	.10uØ	10Ø	1.0mØ	350 †#				2.8p	PE†Ø	MM12a		D
55#	AT318	250m	230M§	2.5m	♦J		45	30	5.0	30m	.50uØ	12Ø	2.0mØ	40 #†△				3.5p	PL†	MM12a		D
56#	AT319	250m	230M§	2.5m	♦J		45	30	5.0	30m	.50uØ	12Ø	2.0mØ	40 #†△				3.5p	PL†	MM12a		D
57#	AT321	250m	230M§	2.5m	♦J		45	30	5.0	30m	.50uØ	12Ø	2.0mØ	100 #†△				3.5p	PL†	MM12a		D
58#	AT322	250m	230M§	2.5m	♦J		35	20	5.0	30m	.50uØ	12Ø	2.0mØ	40 #†△				3.5p	PL†	MM12a		D
59#	AT323	250m	230M§	2.5m	♦J		35	20	5.0	30m	.50uØ	12Ø	2.0mØ	40 #†△				3.5p	PL†	MM12a		D
60#	AT324	250m	230M§	2.5m	♦J		35	20	5.0	30m	.50uØ	12Ø	2.0mØ	100 #†△				3.5p	PL†	MM12a		D
61#	AT325	250m	230M§	2.5m	♦J		35	20	5.0	30m	.50u	12Ø	2.0mØ	20 #†△				3.5p	PL†	MM12a		D
62#	AT335	250m	230M§	2.5m	♦J		35	20	5.0	30m	.50u	12Ø	2.0m	20 #†△				3.5p	PL			
63#	AT339	250m	230M△§	2.5m	♦J		60	60	5.0	100m	100n	12Ø	2.0mØ	100 △				3.5pØ	PL	MM12a		D
64#	AT341	250m	230M§	2.5m	♦J		45	40	5.0	30m	500nØ	12Ø	2.0mØ	100 †△#				3.5p	PL†	MM12a		D
65#	AT347	250m	230M△§	2.5m	♦J		50	50	5.0	100m	100n	12Ø	2.0mØ	40 △				3.5pØ	PL	MM12a		D
66#	AT348	250m	230M△§	2.5m	♦J		45	45	5.0	100m	100n	12Ø	2.0mØ	40 △				3.5pØ	PL	MM12a		D
67#	AT349	250m	230M△§	2.5m	♦J		45	45	5.0	100m	100n	12Ø	2.0mØ	100 △				3.5pØ	PL	MM12a		D
68#	2SC103At	250m	250M§	1.7m	§J		30	20 §	5.0	80m	.10uØ	1.0Ø	10mØ	80 †				4.0p	PL	TO18		
69#	2SC104	250m	250M§	1.7m	§J		25	20 §	5.0	50m	1.0uØ	10Ø	10m	32				4.0p	PL	TO18		
70#	2SC323	250m	250M§	1.7m	§J		40	20	5.0	100m	1.0uØ	1.0Ø	10mØ	90 †				3.0p	PE	TO18		
71#	2SC838	250m	250M§	2.5m	♦J		50	25	5.0	30m	200nØ	3.0Ø	500uØ	75 †				1.8p		TO92		B
72	A747A	250m	300M§	2.5m	♦J		50	45	6.0	100m	5.0uØ	5.0Ø	2.0mØ	220	18u	2.7k	1.5	2.5p$	PL	MM10		A
73	A747B	250m	300M§	2.5m	♦J		50	45	6.0	100m	5.0uØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PL	MM10		A
74	A748B	250m	300M§	2.5m	♦J		30	20	5.0	100m	5.0uØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PL	MM10		A
75	A748C	250m	300M§	2.5m	♦J		30	20	5.0	100m	5.0uØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PL	MM10		A
76	A749B	250m	300M§	2.5m	♦J		30	20	5.0	100m	5.0uØ	5.0Ø	2.0mØ	330	30u	4.5k	2.0	2.5p$	PLØ	MM10		A
77	A749C	250m	300M§	2.5m	♦J		30	20	5.0	100m	5.0uØ	5.0Ø	2.0mØ	600	60u	8.7k	3.0	2.5p$	PLØ	MM10		A
78	CS2481†	250m	300M§△				40	15	5.0			1.0Ø	10mØ	40 †#△		60 Ø		5pØ	DE△	R97a		
79	GME1001	250m	300M§	2.5m	♦J		45	45	4.0		.05uØ	10Ø	10mØ	40 †△				2.5pØ	DPLØ	X45		
80	GME1002	250m	300M§	2.5m	♦J		45	45	4.0		.05uØ	10Ø	10mØ	100 †△				2.5pØ	DPLØ	X45		
81	GME9021†	250m	300M§△	2.5m	♦J		40	15	5.0		.05uØ	1.0Ø	10mØ	30 †△				6pØ	PE	X45		
82	GME9022†	250m	300M§△	2.5m	♦J		25	12	4.0		.50uØ	1.0Ø	10mØ	30 †△				6pØ	PE	X45		
83	MT706	250m	300M§	1.7m	§J		25		3.0		.50u	1.0Ø	10mØ	20 †				5.0p	ME	u13		
84	MT706A	250m	300M§	1.7m	§J		25		5.0		.50u	1.0Ø	10mØ	40 †				5.0p	ME	u13		
85	MT706B	250m	300M§	1.7m	§J		25		5.0		.50u	1.0Ø	10mØ	40 †				5.0p	ME	u13		
86	MT707	250m	300M§	1.7m	§J		56		3.0		5.0u	1.0Ø	10mØ	9.0 †△				5.0p	ME	u13		
87	MT708	250m	300M§	1.6m	§J		40		5.0		25n	1.0Ø	10mØ	45 †				6.0p	PL	u13		
88	NS2525	250m	300M§	2.0m	§A		45	30	4.0		500nØ	1.0Ø	150mØ	50 †				5.0p		ZA21		
89	TI409	250m	300M§△	2.0m	§J		30	12	3.0	30m	.10uØ	10Ø	4.0mØ	20 †△				2.2p §	PEØ	TO92		
90	TI419	250m	300M§△	2.5m	♦J		30	30	6.0	30m	.50uØ	5.0Ø	1.0mØ	90 †△				5pØ	PEØ	X20		
91	TE706†	250m	320M△				25	20 §	3.0		50nØ	1.0Ø	10mØ	20 †#△				6.0pØ	D	R97a		
92#	BF196-01	250m	350M§	2.1m	♦J			30	4.0	25m		10	4.0m	80 †				325f	PL	MM10		C
93	TE2369†	250m	350M§△	2.0m	§J		40	15	4.5	500n	400nØ	10Ø	10nØ	3.5 △				4.0pØ	DPL	R97a		A
94	A496	250m	400M§	2.5m	♦J		40	30	4.0	25m		10	4.0m	27 †△				.2p†	PEØ	MM10		C
95#	BSS21†	250m	400M§△	2.5m	§S		30	12	5.0	200m	400n§	.35Ø	10mØ	30 †△				4.0pØ	PE	X55c		A
96	GME9001†	250m	400M§△	2.5m	♦J		40	15	4.5		.50uØ	1.0Ø	10mØ	40 †△				4pØ	PE	X45		
97	GME9002†	250m	400M§△	2.5m	♦J		30	12	4.5		.50uØ	1.0Ø	10mØ	30 †△				4pØ	PE	X45		
98	MT743	250m	400M§	1.7m	§J		20		5.0			.35Ø	10mØ	40 †				5.0p	E	u13		
99	MT744	250m	400M§	1.7m	§J		20		5.0			.35Ø	10mØ	80 †				5.0p	E	u13		
100	PMT221	250mØ	400M	1.7m	§J		25		5.0	220m	30u	1.0Ø	10mØ	80 †				5.0p		TO51		
101	TI408	250m	400M§△	2.0m	§J		30	12	3.0	30m	100nØ	10Ø	4.0mØ	20 †△				1.6p	PEØ	TO92		
102#	AT520	250m	450M△§	2.5m	♦J		30	30	4.0	50m		10Ø	10mØ	20 △					PE	TO18		AØ
103	SE5015	250m	450M§	2.0m	§J		20	20 Ø*	3.0		50nØ	5.0Ø	4.0mØ	50 †#				370f$	DPLØ	TO92		C
104	MD2369BF*	250m	500M§△	1.5m	§J		40	15	5.0	500m	.03uØ	1.0Ø	10mØ	40 †△#				4pØ	AN△	TO89		
105	ME5001	250m	500M§	2.0m	§J		40	40	4.0	100m	.05u§	10Ø	4.0mØ	60				1.1p	PL	R97b		
106	SE5010	250m	500M§	2.0m	§J		30	30 Ø*	3.0		50nØ	5.0Ø	4.0mØ	75 †#				370f$	DPLØ	TO92		C
107	TI407	250m	500M§△	2.0m	§J		30	12	3.0	30m	.10uØ	10Ø	4.0mØ	30 †△				1.6pØ	PEØ	TO92		
108	A497	250m	550M§	2.5m	♦J		40	25	4.0	25m		10	7.0m	115 †				300f†	PE†	MM10		C
109#	BF197-01	250m	550M§	2.1m	♦J			25	4.0	25m		10	7.0m	85 †				490f	PL	MM10		C
110#	AT340	250m	600M§△	1.4m	§J		30	19	4.0	50m	500n	10Ø	1.0m	20 †#△				1.5pØ	PE	TO104		G

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] MAX. COLL. DISS. @25°C (W)	[2] fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #/ Y200 s/a TO200 Ser.	L C E O A D D E
1#	AT344	250m	600M§△	1.4m	§J	30	19	4.0	50m	500n	10Ø	1.0m	20 †#△				1.5p⍁	PE	TO104	G
2	GI3793	250m	600M⍁§	2.5m	♦J	40	20	5.0		.50uØ	10Ø	10mØ	120 †⍁				10p⍁		TO18	A
3	GME3001	250m	600M§△	2.5m	♦J	30	12	2.0		.05uØ	10Ø	8.0mØ	20 †△				3.5p⍁	PEØ	X45	
4	PET3001	250m	600M§	2.5m	♦J	30	12	4.0	100m	1.0u#Ø	10Ø	10mØ	20 †△				2p⍁	DPE	R110	A
5	CS2368†	250m	640MΔ			40	15	4.5	500m	.40uØ	1.0Ø	10mØ	40 †				4p⍁	PEΔ	R97a	
6#	2SC1187	250m	700M§	2.5m	♦J	40	30	4.0	30m	100nØ	10Ø	3.0mØ	90 †				600f⍁	PL	TO92	C
7	TE3662	250m	700M§△	2.0m	§J	30	12	3.0	25m	500nØ	10Ø	8.0mØ	20 †△				1.7p⍁	DPLØ	TO106	A
8	TE3663	250m	700M§△	2.0m	§J	18	12	3.0	25m	500n	10Ø	8.0mØ	20 †△				1.7p⍁	DPLØ	TO106	A
9	PMT123	250mØ	750M	1.7m	§J	25	20 §	3.0		.50u	1.0Ø	10mØ	20 #△				6p⍁	ME	u6	
10	PMT223†	250mØ	750M	1.7m	§J	25	20 §	3.0		.50u	1.0Ø	10mØ	20 #△				6p⍁	ME	TO51	
11#	BF384	250m	800M§	2.5m	§S	30	20	5.0	30m		10Ø	1.0mØ	75 †△				750f†	PEØ	X55c	A
12#	BF385	250m	800M§	2.5m	§S	30	20	5.0	30m		10Ø	1.0mØ	34 †△				750f†	PEØ	X55c	A
13	PET3002	250m	800M§	2.5m	♦J	30	12	4.0	100m	1.0uØ†	10Ø	10mØ	60 †△				2p⍁	DPE	R110	A
14	PET8101	250m	800M§	2.5m	♦J	18	12	4.0	100m	.05uØ	5.0Ø	5.0mØ	30 †△				2p⍁	DPE	R110	A
15#	2SC1189	250m	850M§	2.5m	♦J	50	40	4.0	30m	100nØ	10Ø	10mØ	100 †				700f⍁	E	TO92	C
16	GME3002	250m	900M§△	2.5m	♦J	30	12	2.0		.05uØ	10Ø	8.0mØ	20 †△				3p⍁	PEØ	X45	
17	CS918	250m	960MΔ			30	15	3.0		.01uØ	3.0Ø	30mØ	20 †△				1.7p⍁	PEØΔ	R97a	
18	A431*	250m	1.0G§△	1.4m	§J	20	10	2.5	50m		1.0Ø	5.0mØ	25 †△				1p†⍁	PE	L29a	
19#	BFW77	250m	1.3G§	1.7m	§J	30	14	4.0	80m	.50uØ	5.0Ø	.50mØ	40 †				1.0p	PE	TO72	G
20	MT1061	250m	1.3G§	1.7m	§J	30	14 ⍁	4.0	80m	.05uØ	5.0Ø	5.0mØ	45 †				.85p$	PEØ	TO72	A
21#	BFW77A	250m	1.5G§	1.7m	§J	30	14	4.0	80m	.50uØ	5.0Ø	.50mØ	70 †				.85p	PE	TO72	G
22#	BFW79	250m	1.5G§	1.7m	§J	30	14	4.0	80m	.50uØ	5.0Ø	.50mØ	55 †				.90p	PE	X77	A
23	ME8101†	250m	1.5G§	2.0m	§J	30	12	3.0	100m	.05u	1.0Ø	15mØ	90				1.3p	PE	R97b	
24	MT1061A	250m	1.5G§	1.7m	§J	30	14 ⍁	4.0	80m	.05uØ	5.0Ø	5.0mØ	75 †				.85p$	PEØ	TO72	A
25	MT1063	250m	1.5G§	1.7m	§J	30	14 ⍁	4.0	80m	.05uØ	5.0Ø	5.0mØ	75 †				1.2p$	PE†	u49	A
26#	RT3101	250m	1.7G§	1.6m	§J	35	30 §	3.0	30m		1.0Ø	30mØ	20 †△				1.5p		TO72	
27#	RT3170	250m*	1.8G§△	1.8m	§J	40	30 §	3.0	40m		5.0Ø	20mØ	60 †				1.0p$		MT107	R
28#	BFR14	250m	3.6G§	2.0m	§J		12	3.5	30m	50nØ	6.0Ø	5.0mØ	25 †△				870f	PEØ	X80	Y
29#	BF168	260m*	550M§	2.0m	§J	50	30	4.0	25m	.30u†	20	7.0m	100 †				1.3p	PE	TO18	
30#	BF232$	270m	600M§	1.5m	§J		25	4.0	30m		10Ø	7.0mØ	30 †△				340f†	PE	TO72	J
31#	BSX80†	275m	300M§△	2.0m	§A						1.0Ø	10mØ	30 △				6.0p	NPE	MM12	
32#	96EP†	280m	250M§△	588u	♦J	70	30	5.0	1	.50uØ	5.0Ø	150mØ	30 †△#				10p⍁	PE†	u46	A
33	2N1763†	300m		500u	§S	40	25	10	50m	.10uØ									TO5	
34	2N1764†	300m		500u	§S	20	15	6.0	50m	.10uØ									TO5	
35#	2N1990W	300m		3.0m	♦J	100	75	5.0		1.0u#	.50Ø	2.0mØ	25 †△					PE	R110	A
36	A104	300m		2.0m	§J	20	20	4.0	30m	100n	5.0Ø	100uØ	200 †					PLØ	TO18	A
37	A106	300m		2.0m	§J	20	20	4.0	30m	100n	5.0Ø	5.0mØ	150 †					PL	TO18	A
38	A108	300m		2.0m	§J	20	20	4.0	30m	100n	5.0Ø	5.0mØ	220 †					PL	TO18	A
39	A110	300m		2.0m	§J	20	20	4.0	30m	100n	5.0Ø	5.0mØ	620 †					PL	TO18	A
40	A111	300m		2.0m	§J	20	20	4.0	30m	100n	5.0Ø	20mØ	360 †					PE	TO18	A
41	A115	300m		2.0m	§J	20	20	4.0	30m	.10u	5.0Ø	.10mØ	60 †					PL	TO18	A
42	A116	300m		2.0m	§J	20	20	4.0	30m	100n	5.0Ø	100uØ	200 †					PLØ	TO18	A
43	CI3414	300m		2.4m	J	25	25	5.0	500m	100n	4.5Ø	2.0mØ	75 △					DPL†	R127a	D
44	CI3415	300m		2.4m	J	25	25	5.0	500m	100n	4.5Ø	2.0mØ	180 △					DPL†	R127a	D
45	CI3416	300m		2.4m	J	50	50	5.0	500m	100nØ	4.5Ø	2.0mØ	75 △					DPL†	R127a	D
46	CI3417	300m		2.4m	J	50	50	5.0	500m	100nØ	4.5Ø	2.0mØ	180 △					DPL†	R127a	D
47	GI2711	300m		3.0m	♦J	18	18	5.0		.50u	4.5Ø	2.0m	120 ⍁				12p⍁	PE	R97d	
48	GI2712	300m		3.0m	♦J	18	18	5.0		.50u	4.5Ø	2.0m	300 ⍁				12p⍁	PE	R97d	
49	GI2713	300m		3.0m	♦J	18	18	5.0		.50u	4.5Ø	2.0m	120 ⍁					PE	R97d	
50	GI2714	300m		3.0m	♦J	18	18	5.0		.50u	4.5Ø	2.0m	300 ⍁					PE	R97d	
51	GI2715	300m		3.0m	♦J	18	18	5.0		.50u	4.5Ø	2.0m	120 ⍁				5p⍁	PE	R97d	
52	GI2716	300m		3.0m	♦J	18	18	5.0		.50u	4.5Ø	2.0m	300 ⍁				5p⍁	PE	R97d	
53	GI3707	300m		3.0m	♦J	30	30			.10uØ	5.0Ø	.10mØ	100 △					Ø	TO18	A
54	GI3708	300m		3.0m	♦J	30	30			.10uØ	5.0Ø	1.0mØ	45 △						TO18	A
55	GI3709	300m		3.0m	♦J	30	30			.10uØ	5.0Ø	1.0mØ	45 △						TO18	A
56	GI3710	300m		3.0m	♦J	30	30			.10uØ	5.0Ø	1.0mØ	90 △						TO18	A
57	GI3711	300m		3.0m	♦J	30	30			.10uØ	5.0Ø	1.0mØ	180 △						TO18	A
58	NS345	300m			§A		35	7.0		.20uØ	1.0Ø	10mØ	140				5p⍁	ME△	TO18	
59#	SPC50Ø	300m			§S	20		6.0	50m								4p⍁	PE	R38	
60#	SPC51Ø	300m			§S	20		6.0	50m								4p⍁	PE	R38	
61#	SPC52Ø	300m			§S	20		6.0	50m								4p⍁	PE	R38	
62#	ST503	300m		500u	§S	25	12	4.5		100nØ	1.0Ø	10mØ	20 †△					PE	TO18	Ø
63#	ST504	300m		500u	§S	30	12	4.5		100nØ	1.0Ø	10mØ	20 †△					PE	TO18	Ø
64	ST1607	300m				40	20	2.0		2.0uØ	5.0Ø	10mØ	120 △				4.0p⍁		TO18	Ø
65	ST1633	300m				70	70	2.0	50m	5.0u	10Ø	5.0mØ	80	50u	1.5k	1.0	10p⍁	PL	TO18	
66	TE2484	300m		2.0m	§J	60	60	6.0	50n	10nØ	5.0Ø	1.0 Ø	150 △	40u⍁	24k⍁	8.0 ⍁	6.0p⍁	Ø	TO106	AØ
67	TE3414	300m		2.4m	§J	25	25	5.0	500m	100n	4.5Ø	2.0mØ	75 △					DPL	R97a	A
68	TE3415	300m		2.4m	§J	25	25	5.0	500m	100n	4.5Ø	2.0mØ	180 △					DPL	R97a	A
69	TE5249	300m		2.3m	§J	70	50	5.0	100m	30nØ	5.0Ø	2.0 Ø	400 △				4.0p$⍁		TO106	B
70	UC900	300m		2.0m	§J	45	45	7.0	30m	250n	5.0Ø	.10uØ	400 †△				7.0p⍁	PLØ	TO18	A
71	V220†	300m		1.7m	§J	15	10	40		5nØ	5.0Ø	.10mØ	70 †△				3p⍁	PE	ZA18	
72	V221†	300m		1.7m	§J	15	10	40		5nØ	5.0Ø	.10mØ	110 †△				3p⍁	PE	ZA18	
73	V222†	300m		1.7m	§J	15	10	4.0		5nØ	5.0Ø	.10mØ	140 †△				3p⍁	PE	ZA18	
74#	TK71	300m	2.0M	2.0m	§J	30		15			9.0Ø	3.0mØ	30				25p	AΔ		
75#	TK72	300m	2.0M	2.0m	§J	15		10			9.0Ø	3.0mØ	25				25p	AΔ		
76	C7076Ø	300m	3.0M§△	1.7m	§J	25	15	15	100m	10n	5.0Ø	1.0mØ	30 †△				12p⍁	EΔ	TO18	AØ
77#	TK70	300m	5.5M	2.0m	§J	30		15			9.0Ø	3.0mØ	50				25p	AΔ		
78	HVT200	300m	6.0M	333u		200	200	6.0		200u	7.0	5.0mØ	20				6.0p	ME	TO46	
79	HVT400	300m	6.0M	333u		400	300	6.0		200u	7.0	5.0mØ	20				6.0p	ME	TO46	
80	HVT600	300m	6.0M	333u		600	400	6.0		200u	7.0	5.0mØ	25				6.0p	ME	TO46	
81	HVT800	300m	6.0M	333u		800	400	6.0		200u	7.0	5.0mØ	30				6.0p	ME	TO46	
82	HVT900	300m	6.0M	333u		900	400	6.0		200u	7.0	5.0mØ	30				6.0p	ME	TO46	
83	HVT1000	300m	6.0M	333u		1.0k	400	6.0		200u	7.0	5.0mØ	30				6.0p	ME	TO46	
84	2N3462	300m	10M§△	2.0m	§S	50	35	5.0	30m	10u	5.0Ø	1.0mØ	150 △	100u⍁	20k⍁		6.0p⍁	Ø	TO18	Ø
85	2N929/51	300m	30M§△	1.6m	§J	45	45	5.0	30m	10u	5.0Ø	1.0mØ	60 △	1.0u⍁b	32 ⍁	6.0 ⍁	8.0p⍁	PLØ	TO51	
86	2N930/51	300m	30M§△	1.6m	§J	45	45	5.0	30m	10u	5.0Ø	1.0mØ	150 △	1.0u⍁b	32 ⍁	6.0 ⍁	8.0p⍁	PLØ	TO51	
87	ST1700	300m	30M§△	1.6m	§J	60	30	5.0		20nØ	5.0Ø	10mØ	80 †△	1.0u⍁b	32 ⍁		8.0p⍁	PLØ	TO18	AØ
88#	ZT930	300m	30M§△			45	45	5.0	30m	.01u			600 †⍁						TO18	
89#	FT023	300m	40M§△	2.5m	§S	50	30	6.0	300m	100u	15Ø	6.0mØ	20 △	50u	650		40p		TO46	
90#	FT024	300m	40M§△	2.5m	§S	50	30	6.0	300m	100u	15Ø	6.0mØ	45 △	50u	650		40p		TO46	
91#	HT400	300m	40MΔ	2.0m	§A	20	20	5.0	50m	200nØ	1.0Ø	10mØ	14 †△	b	30		20p⍁	PL	TO18	
92#	HT401	300m	40MΔ	2.0m	§A	20	20	5.0	50m	200nØ	1.0Ø	10mØ	35 †△	b	30		20p⍁	PL	TO18	
93#	SDD421	300m	40M§△	2.5m	§S	50	30	8.0	300m	100u	15Ø	6.0mØ	30 △	50u	650		40p		TO46	
94	2N3463	300m	45M§△	2.0m	§S	60	45	6.0	30m	2.0n	5.0Ø	1.0mØ	150 △	100u⍁	14k⍁		6.0p⍁	Ø	TO18	AØ
95	2N2356AØ	300m	50M§△	1.7m	▼S	25	7.0	7.0		.01u	10Ø	50mØ	2.5 △				20p⍁		L6	
96	11C702	300m	50M§△	2.0m	§J	60	40	5.0	1.0	10nØ	10Ø	150mØ	100 †△				20p⍁	PE	TO50	
97	11C704	300m	50M§△	2.0m	§J	80	50	8.0	1.0	10nØ	10Ø	150mØ	40 †△				20p⍁	PE	TO50	
98	11C710	300m	50M§△	2.0m	§J	120	80	7.0	1.0	10nØ	10Ø	150mØ	40 †△#				15p⍁	PE	TO50	
99#	BCY51	300m	50M§△	2.0m	§J	30	20	5.0	100m	50nØ	1.5Ø	100nØ	60 †△	10u	4.2k	25		PL	TO18	Ø
100#	C1004†	300m	50M		♦						1.0Ø	150mØ	40				4.0p		TO105	A
101	D12X043†	300m	50M§△	1.7m	§J	80	50	8.0		.10uØ	10Ø	150mØ	40 †△				20p⍁	PE	TO5	
102	D12X047	300m	50M§△	1.7m	§J	45	25	5.0		.10uØ	10Ø	150mØ	20 †△				20p⍁	PE	TO5	
103#	ST54†	300m	50M§△		§S	20	20	5.0	100m	50nØ	.40Ø	1.0mØ	30 †△				10p⍁	PEΔ	TO18	Ø
104	A133	300m	60M§△	2.0m	§J	120	80	5.0		20u#	3.0Ø	4.0mØ	20 †△				3.6p		TO18	AØ
105	A311	300m	60M§△	2.0m	§J	80		3.0		.50uØ	10Ø	10mØ	20 †△				4p⍁	PL	TO5	A
106	A321	300m	60M§	2.0m		30	30	5.0	100m	100n	5.0Ø	2.0mØ	280 †	18u	4.5k	1.5	3.5p	PEØ	TO18	A
107	A322	300m	60M§	2.0m		30	30	5.0	100m	100n	5.0Ø	2.0mØ	400	30u	8.5k	2.0	3.5p	PEØ	TO18	A
108	A323	300m	60M	2.0m		30	30	5.0	30m	100n	5.0	10m	300 †					PL	TO18	A
109	A324	300m	60M	2.0m		30	30	5.0	30m	100n	5.0	10m	400 †				3.5p	PL	TO18	A
110#	FT025	300m	70M§△	2.5m	§S	50	30	6.0	100m	100u	15Ø	6.0mØ	20 △	70u	400		20p		TO46	

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	FT026	300m	70M§△	2.5m	§S	50	30	6.0	100m	100u	15Ø	6.0mØ	45 △	70u	700		22p		TO46
2#	SDD821	300m	70M§△	2.5m	§S	50	30	6.0	100m	100u	15Ø	6.0mØ	30 △	100u	700		20p		TO46
3	A301	300m	80M§△	2.0m	§J	40		4.0	40m	.50uØ	10Ø	3.0mØ	200 †△				3pØ	PL	TO18
4	A310	300m	80M§△	2.0m	§J	135		3.0		.50uØ	10Ø	10mØ	20 †△				4pØ	PL	TO5 A
5#	BC411	300m	80M	3.0m	♦	85	55	7.0	1.0	50u	1.0Ø	5.0mØ	50 △				15p	PE	TO105
6	CS718†	300m	80M△			60	40 §	5.0		1.0uØ	10Ø	150mØ	40 △#	12u	2.2k	3.6	35pØ	D	R97a
7	CS720A	300m	80M△			120	80	7.0		10nØ	10Ø	150mØ	40 †#△	500nØb	30 Ø	1.3 Ø	15pØ	PL△	R97a
8	2N2297/51	300m	96.M△	1.7m	§J	80	35	7.0		.01uØ	10Ø	150mØ	40 †#△	3.5u	1.3k	1.0	1.2pØ	PE	TO51
9	CS718A	300m	96M△			75	50 §	7.0		10nØ	10Ø	150mØ	40 †#△	500nØb	34 Ø	3.0 Ø	25pØ	PL†	R97a
10	2N728†	300m$	100M§△	4.0m	§S	15	15	3.0	100m	5.0u	6.0Ø	10mØ	20 †△				12pØ		TO18 AØ
11	2N729†	300m$	100M§△	4.0m	§S	30	30	3.0	100m	5.0u	6.0Ø	10mØ	20 †△				12pØ		TO18 AØ
12	2N1958/18†	300m	100M§△		§J	60	40 §	5.0	500m	.50u	10Ø	150mØ	40 △#				18pØ	E	TO18 AØ
13	2N1959/18†	300m	100M§△		§J	60	40 §	5.0	500m	.50u	10Ø	150mØ	80 △#				18pØ	E	TO18 AØ
14	2N1959A/51†	300m	100M§	1.7m	§J	60	40 §	5.0	1	.20uØ	10Ø	1 Ø	25 △				14pØ	D	TO51
15	2N2571	300m	100M§△	2.0m	§J	20	15	15		10nØ	10Ø	100mØ	50 †△				10p		TO18 Ø
16	2N2572	300m	100M§△	2.0m	§J	20	15	15		10nØ	10Ø	100mØ	50 †△				10p		TO18 Ø
17	CI3704	300m	100M	2.4m	J	50	30	5.0	800m	100nØ	2.0Ø	50mØ	100 †#△				12pØ	DPL†	R127a D
18	CI3705	300m	100M	2.4m	J	50	30	5.0	800m	100nØ	2.0Ø	50mØ	150 †Ø				12pØ	DPL†	R127a D
19	CI3706	300m	100M	2.4m	J	50	30	5.0	800m	100nØ	2.0Ø	50mØ	600 †Ø				12pØ	DPL†	R127a D
20	GI3704	300m	100M§△	3.0m	♦J	50	30	5.0		.10uØ	2.0Ø	50mØ	300 Ø†△				12pØ	PE	R97d
21	GI3705	300m	100M§△	3.0m	♦J	50	30	5.0		.10uØ	2.0Ø	50mØ	150 Ø†△				12pØ	PE	R97d
22	GI3706	300m	100M§△	3.0m	♦J	40	20	5.0		.10uØ	2.0Ø	50mØ	300 Ø†△				12pØ	PE	R97d
23	QD200-71	300m	100M§△		§J	3.0	3.0	5.0	20m	100pØ	2.0Ø	1.0uØ	2.0kt△	60			3.0p	DEØ	L2d
24	QD200-78	300m	100M§△		§J	3.0	3.0	5.0	20m	100pØ	2.0Ø	1.0uØ	2.0kt△	60			3.0p	DEØ	L2p
25	QD201-71	300m	100M§△		§J	8.0	8.0	5.0	20m	100pØ	5.0Ø	1.0uØ	1.5kt△	50			3.0p	DEØ	L2d
26	QD201-78	300m	100M§△		§J	8.0	8.0	5.0	20m	100pØ	5.0Ø	1.0uØ	1.5kt△	50			3.0p	DEØ	L2p
27	QD203-71	300m	100M§△		§J	20	20	5.0	20m	100pØ	5.0Ø	1.0uØ	1.0kt△	40			3.0p	DEØ	L2d
28	QD203-78	300m	100M§△		§J	20	20	5.0	20m	100pØ	5.0Ø	1.0uØ	1.0kt△	40			3.0p	DEØ	L2p
29	QD204-71	300m	100M§△		§J	35	35	5.0	20m	100pØ	5.0Ø	1.0uØ	800 †△	30			3.0p	DEØ	L2d
30	QD204-78	300m	100M§△		§J	35	35	5.0	20m	100pØ	5.0Ø	1.0uØ	800 †△	30			3.0p	DEØ	L2p
31	TE3704	300m	100M§△	2.4m	§J	50	30	5.0	800m	100nØ	2.0Ø	50mØ	100 †#△				12pØ	DPL	TO106 A
32	TE3705	300m	100M§	2.4m	§J	50	30	5.0	800m	100nØ	2.0Ø	50mØ	150 †Ø				12pØ	DPL	R97a
33	TE3706	300m	100M§	2.4m	§J	50	30	5.0	800m	100nØ	2.0Ø	50mØ	600 †Ø				12pØ	DPL	R97a
34	TE5449	300m	100M§△	2.3m	§J	50	30	5.0	800m	100nØ	2.0Ø	50 Ø	100 †△#				12p$		TO106 A
35	TE5450	300m	100M§△	2.3m	§J	50	30	5.0	800m	100nØ	2.0Ø	50 Ø	50 †#△				12p$		TO106 A
36	TE5451	300m	100M§△	2.3m	§J	40	20	5.0	800m	100nØ	2.0Ø	50 Ø	50 †#△				12p$		TO106 A
37	TI411	300m	100M§△	3.3m	J	50	30	5.0	800m	500nØ	2.0Ø	50m	180 †△				12pØ	PE	X20
38	TI485†	300m	100M§△	2.4m	§J	20	14	3.0	50m	100u	10Ø	10mØ	38 †				6pØ	ME	TO18 AØ
39	CS956	300m	110M△			75	50 §	7.0		10nØ	10Ø	150mØ	100 †△#	500nØb	34 Ø	5.0 Ø	25pØ	PLØ	R97a
40#	ZT131	300m	110M§	2.4m	§A	75	55	3.0	50m	10u#	5.0Ø	3.0mØ	20 †△					PL	TO18
41#	ZT132	300m	110M§	2.4m	§A	100	75	3.0	50m	10u#	5.0Ø	3.0mØ	20 †△					PL	TO18
42#	2SC366	300m	120M§	3.0m	♦J	50		5.0	400m	500nØ	10Ø	10m	60				20pØ	PL	R67a B
43#	2SC367	300m	120M§	3.0m	♦J	40	20	5.0	400m	500nØ	10Ø	10m	70				10p	PE	R67a B
44	D11C702	300m	130M§	1.7m	§A		40	5.0		15u	10Ø	150mØ	100 †△					PE	TO50
45	D11C704	300m	130M§	2.0m	§A		50	8.0		25u	10Ø	150mØ	40 †△					PE	TO50
46	D11C710	300m	130M§	1.7m	§A		80 §	7.0		15u	10Ø	150mØ	40 †△					PE	TO50
47#	2SC402B	300m	140M§		♦J	50	25	4.0	100m	*200nØ	3.0Ø	1.0mØ	32 †△				3.5pØ	ME	u37
48#	2SC403B	300m	140M§		♦J	50	25	4.0	100m	200nØ	3.0Ø	1.0mØ	20 †△				2.7pØ	ME	u37
49	2N4099*	300m	150M§△	1.6m	§S	55	55	7.0	10m	100nØ†	5.0Ø	1.0mØ	175 †△				800fØ		L2m
50#	BC385A	300m	150M§△	2.4m	§S	45	45	6.0	100m	15nØ	5.0Ø	2.0mØ	125 △				3.0p	PE†	X55c A
51#	BC385B	300m	150M§△	2.4m	§S	45	45	6.0	100m	15nØ	5.0Ø	2.0mØ	240 △				3.0p	PE†	X55c A
52#	BC386A	300m	150M§△	2.4m	§S	30	20	6.0	100m	15nØ	5.0Ø	2.0mØ	125 △				3.0p	PE†	X55c A
53#	BC386B	300m	150M§△	2.4m	§S	30	20	6.0	100m	15nØ	5.0Ø	2.0mØ	240 △				3.0p	PE†	X55c A
54#	BFS30	300m	150M	2.4m	§	45	45	5.0	200m	20n	15Ø	100uØ	60 †△				5.0p	PE	u34
55#	BFS31	300m	150M	2.4m	§	45	30	5.0	200m	20n	15Ø	100uØ	80 †△				5.0p	PE	u34
56	SA2719*	300m	150M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	*Ø	L2t
57	SA2720*	300m	150M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	*Ø	L2t
58	SA2721*	300m	150M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	*Ø	L2t
59	SA2722*	300m	150M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	*Ø	L2t
60	SA2723*	300m	150M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	*Ø	L2t
61	SA2724*	300m	150M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	*Ø	L2t
62	SA2726*	300m	150M§△	2.0m	§J	50	25	6.0		2nØ	5.0Ø	.10mØ	100 †△				3pØ		L2t
63	SA2738*	300m	150M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	Ø*	L2t
64	SA2739*	300m	150M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	75 †△				3pØ	Ø*	L2t
65#	2SC318	300m	170M§		§J	50	30	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 †				3.0p	PE	TO18
66#	BC271	300m	175M§	5.0m	§J	25	25	8.0		10n	10Ø	10m	150					PE	TO18 AØ
67#	BC272	300m	175M§	5.0m	§J	45	45	8.0		10n	10Ø	10m	200					PE	TO18 AØ
68	SA2710*	300m	180M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	40 †△				3pØ	*Ø	L2t
69	SA2711*	300m	180M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	150 †△				3pØ	*Ø	L2t
70	SA2712*	300m	180M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	150 †△				3pØ	*Ø	L2t
71	SA2713*	300m	180M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	150 †△				3pØ	*Ø	L2t
72	SA2714*	300m	180M§△	2.0m	§J	60	50	6.0		2nØ	5.0Ø	.01mØ	150 †△				3pØ	*Ø	L2t
73	SA2715*	300m	180M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	40 †△				3pØ	*Ø	L2t
74	SA2716*	300m	180M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	150 †△				3pØ	*Ø	L2t
75	SA2717*	300m	180M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	150 †△				3pØ	*Ø	L2t
76	SA2718*	300m	180M§△	2.0m	§J	50	30	6.0		2nØ	5.0Ø	.01mØ	150 †△				3pØ	*Ø	L2t
77	SA2725*	300m	180M§△	2.0m	§J	50	25	6.0		2nØ	5.0Ø	.10mØ	200 †△				3pØ		L2t
78	2N706A/51†	300m	200M§△	2.5m	§J	25	15	5.0		10u	1.0Ø	10mØ	20				3.5p	ME	TO46
79	2N706C/51†	300m	200M§△	1.6m	§J	40	15	5.0	200m	1.0uØ	1.0Ø	10mØ	20 †#△				5.0pØ	E	TO51
80	2N753/51†	300m	200M§△	2.5m	§J	25	20 §	5.0	200m	500nØ	1.0Ø	10mØ	40 †△				5.0pØ	E	TO51
81	2N2397†	300m	200M§	1.7m	§J	35	20 §	5.0	200m	.10uØ	1.0Ø	10mØ	25 †△				5pØ	EM	TO51 A
82	2N2719	300m	200M§△	2.0m	§J	25	8.0	3.0	200m	1.0uØ	4.0Ø	200uØ	30 †△				6.0pØ	△	TO18 AØ
83	40218†	300m	200M§	2.0m	§J	25	20 §	5.0	50m	500nØ	1.0Ø	10mØ	20 †△				5.0pØ	PE	TO52 Ø
84	40222†	300m	200M§△	2.0m	§J	25	20 §	3.0	200m	30nØ	1.0Ø	10mØ	20 †△				6.0pØ	PE	TO52 Ø
85	A155	300m	200M§	3.0m	♦J	30	20	5.0	30m		10Ø	1.0mØ	66 †				850ft	PEØ	TO106 A
86	A165	300m	200M§	3.0m	♦J	30	20	5.0	30m		10Ø	1.0mØ	66 †				850ft	PEØ	TO106 C
87#	BCW51	300m	200M§△			50	30		200m			20mØ	250 †△				5.0pØ		X55c
88#	BF169	300m	200M§△	2.0m		20	15	5.0		10u	10Ø	10mØ	35 †△				6.0pØ	E	TO18 Ø
89#	BSX81A†	300m*	200M§△	2.9m	§J	35	35	5.0	100m	100u	1.0Ø	10mØ	100 †△				5.0pØ	PE†	MM11 A
90#	BSX81B†	300m*	200M§△	2.9m	§J	35	35	5.0	100m	100u	1.0Ø	10mØ	250 †△				5.0pØ	PE†	MM11 A
91#	ME2001	300m	200M§△	2.0m	§J	35	25 *	4.0		50nØ	1.0Ø	10mØ	40 †△				5.0pØ	DPL	R110c A
92	NS200	300m	200M§	1.7m	§A	25		5.0	100m		5.0Ø	10mØ	15 †				5.0p	ME	TO18
93#	PEP9	300m	200M§△	2.0m	§J	40	20	5.0	200m#	50nØ	.40Ø	10mØ	40 †△				6.0pØ	PE△	TO18
94	SA2644*	300m	200M§△	2.0m	§J	50	25	5.0		5.0nØ	5.0Ø	100uØ	100 †△				5.0pØ	E*	L2b
95	SA2648*	300m	200M§△	2.0m	§J	50	25	5.0		5.0nØ	5.0Ø	100uØ	100 †△				5.0pØ	E*	L2b
96#	ST51†	300m	200M§△		§S	25	15	6.0	100m	50nØ	.35Ø	10mØ	40 †△				6.0pØ	PE△	TO18 Ø
97#	TK255A	300m	200M§△		§J	20	15	6.0	100m	25nØ	9.0Ø	10mØ	2.0 △				6.0pØ	PLE	TO18
98#	TK256A	300m	200M§△		§J	20	15	6.0	100m	25nØ	9.0Ø	10mØ	2.0 △				6.0pØ	PLE	TO18
99#	TK264A	300m	200M§△		§J	40		3.0	100m	.01uØ	9.0Ø	10mØ	25 △				5.5pØ	PL	TO18
100	A157	300m	250M§	2.0m	§J		45	5.0	100m		5.0Ø	2.0mØ	300	22u	4.8k	2.5	4.5p$	PEØ	TO18 A
101	A158	300m	250M§	2.0m	§J		20	5.0	100m		5.0Ø	2.0mØ	300	22u	4.8k	2.5	4.5p$	PEØ	TO18 A
102	A747	300m	250M	2.0m			45	5.0	100m		5.0	2.0m	210					PE	MM10 A
103	A748	300m	250M§	2.0m	§J		20	5.0	100m		5.0Ø	2.0mØ	300	22u	4.8k	2.5		PEØ	MM10 A
104#	AT400	300m	250M§△	2.4m	§J	50	30	5.0	500m	200nØ	10Ø	150mØ	30 †△				8.0pØ	PE	MM12a D
105#	AT401	300m	250M§△	2.4m	§J	50	30	5.0	500m	200n	10Ø	150mØ	100 △				8.0pØ	PE	MM12a D
106#	AT402	300m	250M§△	2.4m	§J	50	45	5.0	500m	200n	10Ø	150mØ	30 △				8.0pØ	PE	MM12a D
107#	AT403	300m	250M§△	2.4m	§J	50	45	5.0	500m	200n	10Ø	150mØ	100 △				8.0pØ	PE	MM12a D
108#	AT404	300m	250M§△	2.4m	§J	50	30	5.0	500m	200n	10Ø	150mØ	30 △				8.0pØ	PE	MM12a D
109#	AT405	300m	250M§△	2.4m	§J	50	45	5.0	500m	200n	10Ø	150mØ	30 △				8.0pØ	PE	MM12a D
110	GI3641	300m	250M§	3.0m	♦J	60	30	5.0		.05u§	10Ø	150mØ	40 †△				8pØ	PE△	R97d

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T A M E X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	GI3643	300m	250M§	3.0m	♦J	60	30	5.0		.05u§	10Ø	150mØ	40 †Δ				8pØ	PEΔ	R97d
2#	ST01	300m	250M§Δ	500u	§S	35	14	5.0		50n	1.0Ø	10mØ	35 †Δ				12pØ	PEΔ	TO18 Ø
3	A154	300m	260M§	3.0m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				850ff	PEØ	TO106 A
4	A164	300m	260M§	3.0m	♦J	30	20	5.0	30m		10Ø	1.0mØ	115 †				850ff	PEØ	TO106 C
5#	ST501†	300m	270M§Δ	500u	§S	25	15	4.5		25nØ	1.0Ø	10mØ	22 †Δ					PEΔ	TO18 Ø
6#	ST502†	300m	270M§Δ	500u	§S	35	15	6.0		25nØ	1.0Ø	10mØ	50 †Δ					PEΔ	TO18 Ø
7	JAN2N851†	300m	300M§Δ	2.0m	▼S	20	12	5.0	200m		.35Ø	10mØ	20 †Δ				5.0pØ		TO50
8	JAN2N852†	300m	300M§Δ	2.0m	▼S	20	12	5.0	200m		.35Ø	10mØ	60 †Δ				5.0pØ		TO50
9	2N2413	300m	300M§Δ	2.0m	§S	40	18	5.0	200m	.10uØ	10Ø	10mØ	30 †Δ				5pØ	EM	TO18 AØ
10	2N3310	300m	300M§Δ	1.7m	§J	35	15	3.0	200m	.01uØ	2.0Ø	20mØ	10 †Δ				3pØ		TO38
11#	2S95A†	300m	300M§Δ	1.7m	§S	20	15	5.0	200m	50nØ	.35Ø	1.0mØ	30 †Δ				6.0pØ	PE	TO18 Ø
12	A134	300m	300M§	3.0m	♦J	90	50	8.0	100m	15u†Ø	5.0Ø	2.0mØ	415 Ø	50uØ	5.5kØ	3.0	2.5p$	PE†	R97b A
13	A135	300m	300M§	3.0m	♦J	90	50	8.0	100m	15u†Ø	5.0Ø	2.0mØ	650 Ø	70uØ	8.5kØ	4.0	2.5p$	PE†	R97b A
14	A136	300m	300M§	3.0m	♦J	90	50	8.0	100m	15u†Ø	5.0Ø	2.0mØ	900 Ø	100uØ	14kØ	5.5	2.5p$	PE†	R97b A
15	A137	300m	300M§	3.0m	♦J	45	30	5.0	100m	15u†Ø	5.0Ø	2.0mØ	415 Ø	50uØ	5.5kØ	3.0	2.5p$	PE†	R97b A
16	A138	300m	300M§	3.0m	♦J	45	30	5.0	100m	15u†Ø	5.0Ø	2.0mØ	650 Ø	70uØ	8.5kØ	4.0	2.5p$	PE†	R97b A
17	A139	300m	300M§	3.0m	♦J	45	30	5.0	100m	15u†Ø	5.0Ø	2.0mØ	900 Ø	100uØ	15kØ	5.5	2.5p$	PE†	R97b A
18	A157C	300m	300M§	2.0m	§J		45	5.0	100m		5.0Ø	2.0mØ	450 Δ				4.5p$	PE	TO18 A
19	A159	300m	300M§	2.0m	§J		20	5.0	100m		5.0Ø	2.0mØ	500	22u	7.3k	3.5	4.5p$	PEØ	TO18 A
20	A344†	300m	300M§Δ	2.0m	§J	20	15	5.0	100m	.10u	.35Ø	10mØ	30 †Δ				5pØ	PE	TO18 A
21	A345†	300m	300M§Δ	2.0m	§J	20	15	5.0	100m	.10u	.35Ø	10mØ	30 †Δ				5pØ	PE	TO18 A
22	A346†	300m	300M§Δ	2.0m	§J	20	15	5.0	100m	.10u	.35Ø	10mØ	40 †Δ				5pØ	PE	TO18 A
23	A749	300m	300M§	2.0m	§J		20	5.0	100m		5.0Ø	2.0mØ	500	44u	7.3k	3.5		PEØ	MM10 A
24#	AT406	300m	300M	2.4m	§J	50	30	5.0	500m	200nØ	1.0Ø	50mØ	100 †#Δ				8.0pØ	PE	MM12a A
25#	AT407	300m	300M	2.4m	§J	50	45	5.0	500m	200nØ	1.0Ø	50mØ	100 †#Δ				8.0pØ	PE	MM12a A
26#	BSW92†	300m	300M§	3.0m	♦J	18	18	5.0	200m	.50u	4.5Ø	2.0mØ	75 †				5.0p	E	R110 A
27	NS381	300m	300M	2.0m	§	25	20	5.0	100m	.10u	.40Ø	3.0mØ	40 †				5pØ	EΔ	TO18
28	NS382	300m	300M	2.0m	§	25	20	5.0	100m	.10u	.40Ø	3.0mØ	80 †				5pØ	EΔ	TO18
29	NS383	300m	300M	2.0m	§	20	12	5.0	100m	.10u	.40Ø	3.0mØ	30 †				5pØ	EΔ	TO18
30	NS384	300m	300M	2.0m	§	20	12	5.0	100m	.10u	.40Ø	3.0mØ	80 †				5pØ	EΔ	TO18
31#	PEP2†	300m	300M	2.0m		25	15	5.0	200m	500n	1.0	10m	20				6.0p	PE	TO18
32#	PEP5†	300m	300MΔ	2.0m	§A	25	15	5.0	200m	50n	1.0Ø	10mØ	40 Δ				6.0p	PE	TO18
33#	PEP6†	300m	300MΔ	2.0m	§A	40	15	5.0	200m	50n	1.0Ø	10mØ	40 Δ				6.0p	PE	TO18
34#	PEP7†	300m	300MΔ	2.0m	§A	25	15	5.0	200m	50n	1.0Ø	10mØ	40 Δ				6.0p	PE	TO18
35#	PEP8†	300m	300MΔ	2.0m	§A	40	15	5.0	200m	50n	1.0Ø	10mØ	40 Δ				6.0p	PE	TO18
36	QD100-71*	300m	300M§Δ	1.7m	§S	25	15	6.5	20m	1.0nØ	5.0Ø	10uØ	150 †Δ	40uØ			3.0pØ	*	L2p
37#	ST50Ø	300m	300M§Δ		§S	25	12	5.0		25nØ	1.0Ø	10mØ	30 †Δ				6.0pØ	PEΔ	TO18 Ø
38#	ST53†	300m	300M§Δ		§S	25	12	5.0		25nØ	1.0Ø	10mØ	40 †Δ				6.0pØ	PEΔ	TO18 Ø
39#	ST55†	300m	300M§Δ		§S	40	15	6.0		25nØ	1.0Ø	10mØ	40 †Δ				6.0pØ	PEΔ	TO18 Ø
40#	ST56†	300m	300M§Δ		§S	25	20	5.0		25nØ	1.0Ø	10mØ	40 †Δ				6.0pØ	PEΔ	TO18 Ø
41#	ST57†	300m	300M§Δ		§S	15	10	4.0		100n	.50Ø	10mØ	40 †Δ				6.0pØ	PEΔ	TO18 Ø
42	STE400	300m	300M§Δ	3.0m	♦J	40	30	5.0		.05uØ	1.0Ø	2.0mØ	150 †Ø				3pØ		R97d
43	STE401	300m	300M§Δ	3.0m	♦J	30	25	5.0		.05uØ	1.0Ø	2.0mØ	360 †Ø				3pØ		R97d
44#	TK257A	300m	300M§Δ		§	30		3.0	100m	25nØ	9.0Ø	10mØ	25 Δ				4.0pØ	PL	TO18
45#	TK258A†	300m	300M§	2.0m	§J	15	12	3.0	100m	.05uØ	0.0	10m	20 †Δ				5.0p	PE	TO18
46#	TK259A†	300m	300M§	2.0m	§J	15	12	3.0	100m	.05uØ	0.0	10m	40 †Δ				5.0p	PE	TO18
47#	ZT190†	300m	300M§Δ	2.4m	§A	20	15	5.0	200m	200n	.40Ø	10mØ	50 †Δ				6.0p	PLØ	TO18 Ø
48#	ZT191†	300m	300M§Δ	2.0m	§A	20	20	5.0	200m	50nØ	.40Ø	10mØ	35 †				10p	PLØ	TO18 Ø
49#	ZT192†	300m	300M§Δ	2.0m	§A	40	20	5.0	200m	50nØ	.40Ø	10mØ	38 †Δ				6.0p	PLØ	TO18 Ø
50#	ZT193†	300m	300M§Δ	2.0m	§A	40	20	5.0	200m	50nØ	.40Ø	10mØ	75 †Δ				6.0p	PLØ	TO18 Ø
51	40220†	300m	350M§Δ	2.0m	§J	40	30 Ø	5.0	200m	500nØ	1.0Ø	10mØ	25 †Δ				4.0pØ	PE	TO52 Ø
52	FM3014†	300m	350M§Δ	1.7m	§J	40	20	5.0		300nØ	.40Ø	30mØ	30 †Δ#				5.0pØ	PE	TO46 Ø
53	2N706B/51†	300m	400M§Δ	2.5m	§J	25	20 §	5.0		10u	1.0Ø	10mØ	40 †				4.5p	ME	TO51
54	2N743/51†	300m	400M§	2.5m	§J	20	12	5.0	200m		.35Ø	10mØ	40 †				5pØ	EM	TO51
55	2N744/51†	300m	400M§	2.5m	§J	20	12	5.0	200m		.35Ø	10mØ	80 †				5pØ	EM	TO51
56	2N2217/51†	300m	400M§	1.7m	§J	60	30	5.0		.01uØ	10Ø	150mØ	40 †				4.0p	PE	TO51
57	2N2218/51†	300m	400M§	1.7m	§J	60	30	5.0		.01uØ	10Ø	150mØ	80 †				4.0p	PE	TO51
58	2N2219/51†	300m	400M§	1.7m	§J	60	30	5.0		.01uØ	10Ø	150mØ	150 †				4.0p	PE	TO51
59	2N2967†	300m	400M§Δ	1.7m	§J	12	6.0	4.0		50nØ	.50Ø	10mØ	20 †Δ				3.0p	Δ	TO18 Ø
60#	2SC63†	300m	400M§	2.0m	§J	25	20 Ø	3.0	50m	1.0uØ	1.0Ø	10mØ	15 †Δ				4.5p	ME	TO18
61#	97EPA†	300m	400M§Δ	3.0m	♦J	20	12	5.0	50m	.40u	1.0Ø	10mØ	10 Δ†				4pØ	PL†	u46 A
62#	97EPB†	300m	400M§Δ	3.0m	♦J	20	12	5.0	50m	.40u	1.0Ø	10mØ	40 Δ†				4pØ	PL†	u46 A
63	40217†	300m	400M§	2.0m	§J	25	20 §	3.0		500nØ	1.0Ø	10mØ	20 †Δ				5.0p	PE	TO52 Ø
64#	BFY28	300m	400M§	2.0m	§J	60	30	6.0	100m	10u	9.0Ø	10mØ	110				4.0p	PLØ	TO18
65#	BSV53†	300m	400M	2.4m	$						1.0Ø	10mØ	40 †Δ				4.0p		u34
66#	BSV54†	300m	400M	2.4m	$						1.0Ø	10mØ	20 †Δ				4.0p		u34
67	CS2221†	300m	400M§			60	30	5.0		.01uØ	10Ø	150mØ	80 †#				4.0p		R97a
68	CS2222†	300m	400M§			60	30	5.0		.01uØ	10Ø	150mØ	150 †#				4.0p		R97a
69	FM2368†	300m	400M§Δ	1.7m	§J	40	15	5.0	500m	400nØ	1.0Ø	10mØ	20 †Δ#				4.0pØ	PE	TO46 Ø
70	FM2369†	300m	400M§Δ	1.7m	§J	40	15	4.5	500m	400nØ	1.0Ø	10mØ	40 †Δ#				4.0pØ	PE	TO46 Ø
71#	P346†	300m	400M§Δ	2.0m	§J	15	10	3.0	500m	500nØ	2.0Ø	10mØ	25 †Δ				4.5pØ	PE	TO18 Ø
72	PET8250	300m	400M§	3.0m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	65	140u	250	2.0	5p$	PE	R110 a A
73	QD101-71*	300m	400M§Δ	1.7m	§S	45	45	6.5	20m	200pØ	5.0Ø	10uØ	150 †Δ	40uØ			2.0pØ	*	L2p
74	QD102-71*	300m	400M§Δ	1.7m	§S	30	30	6.5	20m	200pØ	5.0Ø	10uØ	200 †Δ	40uØ			2.0pØ	*	L2p
75	QD103-71*	300m	400M§Δ	1.7m	§S	45	45	6.5	20m	200pØ	5.0Ø	10uØ	200 †Δ	40uØ			2.0pØ	*	L2p
76	QD104-71*	300m	400M§Δ	1.7m	§S	45	45	6.5	20m	200pØ	5.0Ø	10uØ	200 †Δ	40uØ			2.0pØ	*	L2p
77	S15658	300m	400M§Δ	3.0m	♦J	40	15	4.0		.05uØ	10Ø	15mØ	70 †#				4pØ	DPE	TO106
78	2N835/51†	300m	450M§	2.5m	§J	25	20	3.0	200m	.50uØ	1.0Ø	10mØ	40 †				2.8p	ME	TO51
79#	2SC396	300m	450M§	2.0m	§J	40	20 §	5.0	200m	.10uØ	1.0Ø	10mØ	200 †Ø				3.0p	PE	TO18
80#	BF314Ø	300m	450M§	2.5m	$J	30	30	4.0	25m	60nØ							130ft†Ø	PEØ	X64c A
81	PET8251	300m	450M§	3.0m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	125	200u	400	2.0	5p$	PE	R110 a A
82	2N834/51†	300m	500M§	2.5m	§J	40	30	5.0	200m	.50uØ	1.0Ø	10mØ	40 †				2.8p	ME	TO5
83	MM1943	300m	500M§Δ	2.0m	§J	40	40 Ø	3.0	200m	100nØ	.10Ø	10mØ	50 †				4.0pØ	E	TO18 Ø
84	SE5029	300m	500M§Δ	2.7m	†J	35	30 Ø	3.0		200nØ	10Ø	5.0mØ	70 †				300f$	DPEØ	TO105 C
85	SE5031	300m	500M§Δ	2.7m	†A	40	30 Ø*	4.0		100nØ	10Ø	5.0mØ	80 †				300f$	DPEØ	TO105 C
86	ST6110†	300m	500M	1.6m	§J	10	5.0	3.0	50m	50n	.50Ø	10mØ	20					PE	TO18
87#	BF310Ø	300m	580M§	2.5m	§J	30	30	4.0	25m	60nØ							1.6pØ	PE	X64c A
88#	2SC395	300m	600M§	1.7m	§J	20	12	3.0	200m	1.0uØ	1.0Ø	10mØ	50 †				2.4p	PE	TO18
89#	78EP†	300m	600M§Δ	3.0m	♦J	15	6.0	4.0	200m#	.05uØ	.40Ø	20mØ	30 Δ†				3pØ	PL†	u46 A
90	FM709†	300m	600M§Δ	1.7m	§J	15	6.0	4.0		50nØ	.50Ø	10mØ	55 †Δ#				3.0pØ	PL	TO46 Ø
91	GI3794	300m	600MØ§	3.0m	♦J	40	20	5.0		.50uØ	10Ø	10mØ	600 †Ø#				10pØ		TO18 A
92	SE5030A	300m	600M§Δ	2.7m	†A	45	40 Ø*	4.5		50nØ	15Ø	7.0m	80 †				280f$	DPE	TO105 C
93#	ST71	300m	600M§Δ		§S	25	15	3.0		10nØ	1.0Ø	3.0mØ	20 †Δ				3.0pØ	PE	TO18 Ø
94#	ST72	300m	600M§Δ		§S	25	15	3.0		10nØ	1.0Ø	3.0mØ	50 †Δ				3.0pØ	PE	TO18 Ø
95	2N2368/51†	300m	640MΔ	1.7m	§J	40	15	4.5	500m	.40uØ	1.0Ø	10m	40 †				4pØ	PEΔ	TO51
96	40404	300m	700M§	2.0m	§A	40	16	5.0	500m	25nØ	2.0Ø	50mØ	65 †Ø				4.0pØ	PE	TO52 AØ
97	2N709/52†	300m	800M§Δ	1.7m	§J	15	6.0	4.0		.05uØ	.50Ø	10mØ	55 †				3pØ	PE	TO52
98	2N709A/51†	300m	800M§	1.6m	§J	15	6.0	4.0		5.0nØ	.50Ø	10mØ	60 †				3.0pØ		TO51
99	2N917/51	300m	800MΔ	1.6m	§J	30	15	3.0		1.0nØ	1.0Ø	3.0mØ	20 †Δ				1.7pØ	PLΔ	TO51
100	2N2369/51†	300m	800MΔ	1.7m	§J	40	15	4.5	500m	.40uØ	1.0Ø	10m	80 †				4pØ	PE	TO51
101	2N2475/51†	300m	800M§	1.7m	§J	15	6.0	4.0		10u	.40Ø	20mØ	50 †				2.4p	PE	TO51 A
102	ST6125	300m	800M§Δ	1.6m	§J	10	5.0	3.0		50nØ	.50Ø	10mØ	20 †Δ				3.0p	PEΔ	TO18 Ø
103	S5327E	300m	900M§	1.7m	▼J	30	15	3.0		.10uØ							2.2p	PE	TO18
104	2N918/51	300m	960MΔ	1.7m	§J	30	15	3.0		.01uØ	3.0	30mØ	20 †Δ				1.7pØ	PEØΔ	TO51
105	2N2784/51†	300m	1.0G§	1.7m	§J	15	6.0	4.0		5nØ	.50Ø	10mØ	120 †Ø				3pØ	PE	TO51 A
106	2N2784/52†	300m	1.0G§Δ	1.7m	§J	15	6.0	4.0		5nØ	.50Ø	10mØ	120 †Ø				3pØ	PE	TO52
107#	BFW98	300m	1.0G§			36	18	4.0			6.0Ø	50mØ	35 †				2.5p		MT59e GCØ
108	ST6120†	300m	1.0G§	1.6m	§J	10	5.0	3.0	50m	50nØ	.50Ø	10mØ	20					PE	TO18
109#	BFW73	300m	1.1G§	2.0m	§J	30	15	4.0	250m	.50uØ	5.0Ø	10mØ	40 †#				4.0p	PE	TO46 AØ
110#	BFW73A	300m	1.1G§	2.0m	§J	30	15	4.0	250m	.50uØ	5.0Ø	10mØ	40 †#				4.0p	PE	TO52 AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	BFW74	300m	1.1G§	2.0m	§J	30	15	4.0	250m	.50uØ	5.0Ø	10mØ	40 †#				4.0p	PE	TO46 AØ
2#	BFW75	300m	1.1G§	2.0m	§J	30	15	4.0	250m	.50uØ	5.0Ø	10mØ	40 †#				4.0p	PE	X77 AØ
3	2N709/51†	300m	1.2G	1.7m	§J	15	6.0	4.0		.05uØ	.50Ø	10mØ	55 †				3pØ		TO51
4	2N3633/52†	300m	1.3G§△	1.7m	§J	15	6.0	4.0		5nØ	.50Ø	10mØ	50 †△		30 Ø		2.5pØ	PE	TO52
5#	BFW76	300m	1.3G§	2.0m	§J	30	14	4.0	80m	.50uØ	5.0Ø	.50mØ	40 †				1.0p	PE	TO46 AØ
6#	BFX53	300m	1.3G§△	2.5m	§J	20	12	2.5	25m	10nØ	1.0Ø	25mØ	15 †△				900ft†Ø	PE†Ø	u68 C
7	MT1060	300m	1.3G§	2.0m	§J	30	14 Ø	4.0	80m	.05uØ	5.0Ø	5.0mØ	45 †				1p$	PE	TO46 AØ
8	A215	300m	1.4G§		§J	40	25	3.0	150m	10u	5.0	50m	25 †△				3.5pØ		TO46 A
9#	BFX42§	300m	1.4G§	1.7m	§J	15	10	4.0		1.0uØ	5.0Ø	10mØ	180 †#				1.9p	DPE	TO46 Ø
10	FT40	300m	1.4G§	1.7m	§J	15	10	4.0		1.0uØ	5.0Ø	10mØ	180 †#				1.9p	PE	TO46
11#	BFW76A	300m	1.5G§	2.0m	§J	30	14	4.0	80m	.50uØ	5.0Ø	.50mØ	70 †				.85p	PE	TO46 AØ
12	MT1060A	300m	1.5G§	2.0m	§J	30	14 Ø	4.0	80m	.05uØ	5.0Ø	5.0mØ	75 †				1p$	PE	TO46 AØ
13	MT1062	300m	1.5G§	2.0m	§J	30	14 Ø	4.0	80m	.05uØ	5.0Ø	5.0mØ	75 †				1p$	PE	TO50 FØ
14	35822B	300m	9.0GØ	2.5mØ	§J	30	20	1.5	35m	10uØ	15Ø	150u△	125 Ø				750f		u77f U
15	35822EOpt200	300m	9.0GØ	2.5mØ	§J	30	20	1.5	35m	10uØ	15Ø	150u△	125 Ø				330f$	Ø	u77f V
16	35861B	300mØ	13GØ	12mØ	§J	20	15	1.5	20m	100nØ	10Ø	150u△	80						u110 AD
17	35865B	300mØ	13GØ	5.0mØ	§J	20	15	1.5	20m	100nØ	10Ø	150u△	80						u77g S
18	35865E	300mØ	13GØ	5.0mØ	§J	20	15	1.5	20m	100nØ	10Ø	150u△	80						u77g AD
19	35865EOpt100	300mØ	13GØ	5.0mØ	§J	20	15	1.5	20m	100nØ	10Ø	150u△	80					Ø	u77g AD
20	35862B	300mØ	14GØ	2.5mØ	§J	20	15	1.5	20m	100nØ	10Ø	150u△	80						u77f V
21	TE5088	310m		3.6m	†S	35	30	3.0	50m	50nØ	5.0Ø	1.0mØ	350 △				4.0p$Ø	Ø	TO106 A
22	TE5089	310m		3.6m	†S	30	25	3.0	50m	50nØ	5.0Ø	1.0mØ	450 △				4.0p$Ø	Ø	TO106 A
23	MPS6552	310m	30M§△	2.9m	†J	35		6.0					100 †△				12pØ	AN	TO92
24	MPS6553	310m	30M§△	2.9m	†J	35		6.0					100 †△				12pØ	ANØ	TO92
25	MPS6554	310m	30M§△	2.9m	†J	35		6.0					200 †△				12pØ	AN	TO92
26	MPS6555	310m	30M§△	2.9m	†J	35		6.0					200 †△				12pØ	ANØ	TO92
27	SE4172	310m	40M§△	3.0m	†J	20	20 Ø*	5.0		100n	10Ø	10mØ	50 △				10p$Ø	DPLØ	TO106 A
28	TE3903†	310m	250M	2.8m		60	40	6.0	200m	50n	10Ø	1.0mØ	50	40u	8.0k	5.0	4.0p		R97a
29	TE4123	310m	250M§△	2.8m	†J	40	30	5.0	200m	50nØ	10Ø	2.0mØ	50 △				4.0pØ	Ø	TO106 A
30	TE3904†	310m	300M§△	2.8m	†J	60	40	6.0	200m	50n#	10Ø	1.0mØ	100 △	40uØ	10kØ	8.0 Ø	4.0pØ	Ø	TO106
31	TE4124	310m	300M§△	2.8m	†J	30	25	5.0	200m	50nØ	10Ø	2.0mØ	120 △				4.0pØ	Ø	TO106 A
32	TE4409	310m	300M	2.9m		80	50	5.0	250m	10n	1.0Ø	10mØ	400 †				12p		R97a
33	TE4410	310m	300M	2.9m		120	80	5.0	250m	10n	1.0Ø	10mØ	400 †				12p		R97a
34	TE3605A†	320m	300M§△	3.3m	♦J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 †△				6.0p$Ø		TO106 A
35	TE3606A†	320m	300M§△	3.3m	♦J	40	15	5.0	200m	25nØ	1.0Ø	10mØ	30 †△				6.0p$Ø		TO106 A
36	D33K1	330m		3.3m		50	30	5.0	1.0	200n	1.0	500m	35				9.0p		TO98 B
37	D33K2	330m		3.3m		70	40	5.0	1.0	200n	1.0	500m	35				9.0p		TO98 B
38	D33K3	330m		3.3m		80	50	5.0	1.0	200n	1.0	500m	35				9.0p		TO98 B
39	TE5309	330m		3.3m	§S	70	50	5.0	100m	10nØ	5.0Ø	10uØ	66 △				4.0p$Ø		TO106 A
40	TE5310	330m		3.3m	§S	70	50	5.0	100m	10nØ	5.0Ø	10uØ	110 △				4.0p$Ø		TO106 A
41	TE5311	330m		3.3m	§S	70	50	5.0	100m	10nØ	5.0Ø	10uØ	250 △				4.0p$Ø		TO106 A
42	SE5056	330m	300M§△	2.7m	§J	20	20 Ø	3.0		50n	10Ø	2.0mØ	80 †				250f$	DPLØ	TO105 C
43#	BF121	330m	350M§	3.3m	♦J		30	4.0	25m		10Ø	4.0mØ	30 †△				220ft	PL†	X65a A
44#	BF125	330m	450M§	3.3m	♦J		30	4.0	30m		10Ø	7.0mØ	35 †△				300ft	PE†	X65a A
45#	BF123	330m	550M§	3.3m	♦J		30	4.0	30m		10Ø	7.0mØ	35 †△				300ft	PE†	X65a A
46	RT730M†	350m	20.M	2.3m	§J	60		5.0		1.0uØ	10Ø	150mØ	40 †				35pØ	PL	TO46
47	RT731M†	350m	20.M	2.3m	§J	60		5.0		1.0uØ	10Ø	150mØ	80 †				35pØ	PL	TO46
48#	ZT27	350m	70M§△	2.8m		100	100	6.0	50m	.50uØ	6.0Ø	10mØ	38 †△						TO5
49#	2SC283	350m	80M§△			50	20	5.0	100m	.10u	8.0Ø	10mØ	170				10pØ		TO1
50	RT910M	350m	96MΔ	2.0m	§J	100	60	7.0		25nØ	5.0Ø	1.0mØ	125	130nb	16	750m	15 Ø	PL	TO18
51#	2SC317H†	350m	100M§△	2.3m	§J	70	50	5.0	100m	.10uØ	6.0Ø	10mØ	80 †*					DPM	TO1 A
52#	2SC283H	350m	180M§△			50	20	5.0	100m	.10u	6.0Ø	10mØ	9.0				10pØ		TO1
53	FM2242†	350m	250M§△	2.0m	§J	40	15	5.0	225m	100nØ	1.0Ø	10mØ	40 †△				6.0pØ	PE	TO46 Ø
54	USAF522ES075M†																		
		350m	250M§△	1.4m	§J	35	20	5.0	200m	20nØ	10Ø	10mØ	30 △					PLE	X34
55	USAF522ES076M†																		
		350m	250M§△	1.4m	§J	35	20	5.0	200m	20nØ	10Ø	10mØ	30 △					PLE	X34 △
56	USAF523ES077M†																		
		350m	250M§△	1.4m	§J	35	18	5.0	200m	100nØ	10Ø	10mØ	30 △					PLE	X34
57	USAF523ES078M†																		
		350m	250M§△	1.4m	§J	35	18	5.0	200m	100nØ	10Ø	10mØ	30 △					PLE	X34 △
58	FM708†	350m	300M§△	2.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	30 †△#				6.0pØ	PL	TO46 Ø
59	2N1992†	350m	430M§	2.0m	§		15	6.0	50m	500n	2.0	1.0m	70	500nb	30	11	5.0pØ	E△	TO18 Ø
60	NS9710	350m	1.0G§	2.0m	ØJ	30	20	4.0	100m	10uØ	10Ø	4.0mØ	30 △	65u	475	2.7	1.0p	PE	TO72 G
61	2N2831	360m		2.1m	§J	40	12	3.0	200m	.03uØ	10Ø	10mØ	40 △				5pØ		TO18 A
62#	BC289A	360m		2.0m	§J	45	40	6.0	100m	5.0u△	5.0Ø	1.0mØ	200 †	9.5u	5.6k	2.1	2.8p	PLØ	TO18 A
63#	BC289B	360m		2.0m	§J	45	40	6.0	100m	5.0u△	5.0Ø	1.0mØ	350 †	16u	9.0k	3.5	2.8p	PLØ	TO18 A
64#	BC290B	360m		2.0m	§J	45	40	6.0	100m	5.0u△	5.0Ø	1.0mØ	350 †	16u	9.0k	3.5	2.8p	PLØ	TO18 A
65#	BC290C	360m		2.0m	§J	45	40	6.0	100m	5.0u△	5.0Ø	1.0mØ	550 †	22u	15k	5.3	2.8p	PLØ	TO18 A
66	CI4424	360m		2.8m	J	40	40	5.0	500m	100n	4.5Ø	2.0mØ	180					DPL†	R127 D
67	ME495	360m		2.0m	§J	40		5.0		1.0uØ	5.0Ø	10mØ	120 †△					PL	TO18
68#	SPC42Ø	360m			§S	25	10	6.0		50n								PE	TO18 Ø
69	TE4424	360m		2.9m		40	40	5.0	500m	100n	4.5Ø	2.0mØ	180						R97a
70	MM2483	360m	12M§△	2.1m	§J	60	60	6.0	50m	.01uØ	5.0Ø	1.0mØ	80 △	50uØ	24kØ	25 Ø	6pØ	EAØ	TO18 A
71	A130	360m	20M§△	2.0m	§J	90	80 §	4.0		5.0u	5.0Ø	10mØ	20 †△				20pØ	PL	TO5 A
72	A132	360m	30.M§	2.0m	§J	90		4.0				10mØ	20 †△						TO5
73	PT703	360m	30.M	2.0m	§J	25	25 §	5.0	200m	5.0uØ			80 Ø					PE	TO18
74	PET8000	360m	40M§△	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	160	40u	900	10	2.5pØ	DPL	R110 A
75	PET8001	360m	40M§△	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	260	40u	900	10	2.5pØ	DPL	R110 A
76	PET8002	360m	40M§△	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	400	40u	900	10	2.5pØ	DPL	R110 A
77	PET8003	360m	40M§△	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	260	40u	900	10	2.5pØ	DPL*	R110 A
78	PET8004	360m	40M§△	3.6m	♦J	50	35	8.0	100m	.01uØ	10Ø	1.0mØ	400	40u	900	10	2.5pØ	DPL*	R110 A
79#	ST250	360m	40M§△		§S	60	40 §	6.0		100nØ	10Ø	150mØ	40 †#△				25pØ	PE	TO18 Ø
80	MD1T2484	360m	60M§		§A	60	60	6.0	50m	10nØ	5.0Ø	500uØ	2.0 △				6.0pØ		TO122 P
81	PET4001	360m	60M§△	3.6m	♦J	30	25	8.0	100m	.01uØ	10Ø	1.0mØ	160	40u	900	10	3pØ	PL†	R110 A
82	PET4002	360m	60M§△	3.6m	♦J	30	25	8.0	100m	.01uØ	10Ø	1.0mØ	260	40u	900	10	3pØ	PL†	R110 A
83	PET4003	360m	60M§△	3.6m	♦J	30	25	8.0	100m	.01uØ	10Ø	1.0mØ	400	40u	900	10	3pØ	PL†	R110 A
84#	ST251	360m	60M§△		§S	60	40 §	5.0		10nØ	10Ø	150mØ	100 †#△				25pØ	PE	TO18 Ø
85	ST71000	360m	60M§△	2.3m	§J	60	30	15	50m	2.0nØ	5.0Ø	10uØ	400 †△		23k		4.0pØ	PEØ	TO18
86	TC2483	360m	60M§△	2.0m	§J	60	60	6.0	50m	.01uØ	5.0Ø	.01mØ	40 †△	30uØ	13 Ø	8 Ø	6pØ	PE	
87	TC2484	360m	60M§△	2.0m	§J	60	60	6.0	50m	.01uØ	5.0Ø	.01mØ	100 †△	40uØ	24 Ø	8 Ø	6pØ	PE	
88#	C1003	360m	70M	2.1m	§	60	60	8.0	50m	20n	5.0Ø	1.0mØ	150 †	15m	7.0k	3.5	6.0p	PL	TO18 A
89	A306	360m	100M§△	2.0m	§J	25	20	5.0		10nØ	5.0Ø	1.0mØ	100 △	1.0uØb	32 Ø	100mØ	6.0pØ	PLØ	TO18 A
90	A307	360m	100M§△	2.0m	§J	25	20	5.0		10nØ	5.0Ø	1.0mØ	100 △	1.0uØb	32 Ø	100mØ	6.0pØ	PLØ	TO18 A
91	ME213	360m	100M§△	2.0m	§J	45	25	5.0	200m	.10uØ	5.0Ø	1.0mØ	185				6pØ	PE	TO18 A
92	ME213A	360m	100M§△	2.0m	§J	45	25	5.0		.10uØ	5.0Ø	1.0mØ	70 △				6pØ	PL	TO18 A
93	ME216	360m	100M§△	2.0m	§J	20	10	3.0	200m	.50uØ	1.0Ø	10mØ	45 †△				8pØ	PE	TO18 A
94	ME217	360m	100M§△	2.0m	§J	20	10	3.0	200m	.50uØ	1.0Ø	10mØ	100 †△				8pØ	PE	TO18 A
95	ME900	360m	100M§△	2.0m	§J	40	20	5.0		10nØ	5.0Ø	1.0mØ	100 △	1.0uØb	32 Ø	100mØ	6.0pØ	PLØ	TO18 A
96	ME900A	360m	100M§△	2.0m	§J	40	20	5.0		10nØ	5.0Ø	100uØ	70 †△	1.0ub	32 Ø	10 Ø	6.0pØ	PLØ	TO18
97	ME901	360m	100M§△	2.0m	§J	40	20	5.0		10nØ	5.0Ø	1.0mØ	100 △	1.0uØb	32 Ø	100mØ	6.0pØ	PLØ	TO18 A
98	ME901A	360m	100M§△	2.0m	§J	40	20	5.0		10nØ	5.0Ø	100uØ	175 †△	1.0ub	32 Ø	10 Ø	6.0pØ	PLØ	TO18
99	NS1900	360m	100M§△	2.0m	§A	100	60	10		1.0n	5.0Ø	10u	200 †				5.0pØ	DØ	TO18
100	PET3704	360m	100M§△	3.6m	♦J	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	5.0 △				12pØ	PE†	R110 A
101	PET3705	360m	100M§△	3.6m	♦J	50	30	5.0	800m	.10uØ	2.0Ø	50mØ	5.0 △				12pØ	PE†	R110 A
102	PET3706	360m	100M§△	3.6m	♦J	40	20	5.0	800m	.10uØ	2.0Ø	50mØ	5.0 △				12pØ	PE†	R110 A
103#	ST06	360m	100M§△		§S	50	35	5.0		20nØ	5.0Ø	10mØ	80 †△				6.0pØ	PEΔ	TO18 Ø
104	D32P1	360m	115M§△	3.6m	§S	40	30	4.0	100m#	50n	5.0Ø	2.0mØ	40 †△	4.5u	2.0k	1.0	1.5p$Ø		X55a B
105	D32P2	360m	125M§△	3.6m	§S	40	30	4.0	100m#	50n	5.0Ø	2.0mØ	60 †△	7.3u	3.0k	1.6	1.5p$Ø		X55a B
106#	C442	360m	130M§	2.0m	§J	40	30	5.0		.10uØ	10Ø	1.0mØ	115 †#				14p	PL	TO18 AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	GME6003	360m	150M§△	3.6m	♦J	25	25	4.0		.10uØ	5.0Ø	50mØ	30 †△				12pØ	PE△	X45
2	PET1075	360m	150M§	3.6m	♦J	90	70	6.0	150m	1.0uØ†	1.0Ø	1.0mØ	60 †△				5pØ	DPL	R110 A
3	PET1075A	360m	150M§	3.6m	♦J	140	90	6.0	150m	1.0uØ†	1.0Ø	1.0mØ	60 †△				5pØ	DPL	R110 A
4	PET6003	360m	150M			25	25	4.0	500m	.10uØ	5.0Ø	50mØ	100 †				12pØ	PE	TO18
5#	BC152	360m	180M§	2.8m	$J	35	35	5.0	500m	500n	10Ø	1.0mØ	220	14u	6.1k	2.9		PE	TO98 B
6#	BC180	360m	180M§	2.8m	$J	45	45	5.0	500m	500n	10Ø	1.0mØ	210	13u	5.9k	2.7		PE	TO98 B
7	2N3826	360m	200M§△	2.9m	$S	60	45	4.0	30m	.10uØ	10Ø	10mØ	40 †#△				4pØ	†	TO92 B
8	2N5735†	360m	200M§△	2.9m	$S	60	30	5.0	300m	10nØ	10Ø	10mØ	30 †△#				8.0p$Ø		TO122 P
9	2N5736†	360m	200M§△	2.9m	$S	60	30	5.0	300m	10nØ	10Ø	10mØ	70 †△#				8.0p$Ø		TO122 P
10#	AT490	360m	200M△§	2.1m	§J	30	30	5.0	100m	100nØ	10Ø	10mØ	50 †△				3.5pØ	PE	TO18 AØ
11#	AT491	360m	200M△§	2.1m	§J	45	45	5.0	100m	100n	10Ø	10mØ	50 △				3.5pØ	PE	TO18 AØ
12#	AT492	360m	200M△§	2.1m	§J	30	30	5.0	100m	100n	10Ø	10mØ	100 △				3.5pØ	PE	TO18 AØ
13#	AT493	360m	200M△§	2.1m	§J	45	45	5.0	100m	100n	10Ø	10mØ	100 △				3.5pØ	PE	TO18 AØ
14#	AT494	360m	200M△§	2.1m	§J	30	30	5.0	100m	100n	10Ø	10mØ	50 △				3.5pØ	PE	TO18 AØ
15#	AT495	360m	200M△§	2.1m	§J	45	45	5.0	100m	100n	10Ø	10mØ	50 △				3.5pØ	PE	TO18 AØ
16#	BC507	360m	200M§	3.6m	♦J	45	70 Ø	7.0	200m	15u	5.0Ø	2.0mØ	125				3.5p	PE	TO92
17#	BC507A	360m	200M	3.6m	♦		45	7.0	200m	15n	5.0Ø	2.0mØ	110 △				4.0p	PE	TO92
18#	BC507B	360m	200M	3.6m	♦		45	7.0	200m	15n	5.0Ø	2.0mØ	200 △				4.0p	PE	TO92
19#	BC508	360m	200M§	3.6m	♦J	35	60 Ø	7.0	200m	15u	5.0Ø	2.0mØ	125				3.5p	PE	TO92
20#	BC508A	360m	200M	3.6m	♦		35	7.0	200m	15n	5.0Ø	2.0mØ	110 △				4.0p	PE	TO92
21#	BC508B	360m	200M	3.6m	♦		35	7.0	200m	15n	5.0Ø	2.0mØ	200 △				4.0p	PE	TO92
22#	BC508C	360m	200M	3.6m	♦		35	7.0	200m	15n	5.0Ø	2.0mØ	420 △					PE	TO92
23#	BC509	360m	200M§	3.6m	♦J	35	60 Ø	7.0	200m	15u	5.0Ø	2.0mØ	240				3.5p	PE	TO92
24#	BC509B	360m	200M	3.6m	♦		35	7.0	200m	15n	5.0Ø	2.0mØ	200 △					PE	TO92
25#	BC509C	360m	200M	3.6m	♦		35	7.0	200m	15n	5.0Ø	2.0mØ	420 △					PE	TO92
26#	BC510	360m	200M§	3.6m	♦J	25	40 Ø	7.0	200m	15u	5.0Ø	2.0mØ	240				3.5p	PE	TO92
27#	BC510B	360m	200M	3.6m	♦		25	7.0	200m	15n	5.0Ø	2.0mØ	200 △					PE	TO92
28#	BC510C	360m	200M	3.6m	♦		25	7.0	200m	15n	5.0Ø	2.0mØ	420 △					PE	TO92
29	GME6001	360m	200M§△	3.6m	♦J	40	30	5.0		.05u§Ø	1.0Ø	50mØ	30 †△				10pØ	PE	X45
30	GME6002	360m	200M§△	3.6m	♦J	40	30	5.0		.05u§Ø	1.0Ø	50mØ	75 †△				10pØ	PE	X45
31	LDS208†	360m	200M§△	2.9m	$J	60	30	5.0	300m	10nØ	10Ø	10mØ	70 †△#				8.0p$Ø	PEØ	u34c P
32	PET1001	360m	200M§△	3.6m	♦J	45	45	4.0	150m	.50uØ	10Ø	5.0mØ	20 △	35u	900	2.0	4pØ	DPL	R110 A
33	PET1002	360m	200M§△	3.6m	♦J	45	45	4.0	150m	.50uØ	10Ø	5.0mØ	70 △	35u	900	2.0	4pØ	DPL	R110 A
34	PET2001	360m	200M§△	3.6m	♦J	35	20	4.0	150m	.05uØ	10Ø	5.0mØ	20 △	35u	900	2.0	5pØ	DPL	R110 A
35	PET2002	360m	200M§△	3.6m	♦J	35	20	4.0	150m	.05uØ	10Ø	5.0mØ	70 △	35u	900	2.0	5pØ	DPL	R110 A
36	PET8200	360m	200M§△	3.7m	♦J	30	25	5.0	100m	.05u	10Ø	2.0mØ	50 △				5pØ	PE	R110 A
37	PET8201	360m	200M§△	3.7m	♦J	40	30	5.0	100m	.05uØ	10Ø	2.0mØ	50 △				5pØ	PE	R110 A
38	PET8202	360m	200M§△	3.7m	♦J	30	25	5.0	100m	.05u	10Ø	2.0mØ	150 △				5pØ	PE	R110 A
39	PET8203	360m	200M§△	3.7m	♦J	40	30	5.0	100m	.05uØ	10Ø	2.0mØ	150 △				5pØ	PE	R110 A
40	PET8204	360m	200M§△	3.7m	♦J	30	25	5.0	100m	.05u	10Ø	2.0mØ	250 △				5pØ	PE	R110 A
41	TIS44†	360m	200M§△	2.9m	$J	25	20 §	3.0	50m	.50uØ	1.0Ø	10mØ	20 †#△				6pØ	PE	TO92
42	TIS106	360m	200M△§	2.8m	$S	80	65	6.0	200m	50nØ	5.0Ø	1.0mØ	235	9.0u	6.0k	1.5	4.0pØ$	PE†	X55 A
43	TIS107	360m	200M△§	2.8m	$S	60	40	6.0	200m	50nØ	5.0Ø	1.0mØ	105	7.5u	3.0k	800m	4.0pØ$	PE†	X55 A
44	2N2656	360m	250M§△	2.0m	§J	25	15	5.0	200m	.50uØ	10Ø	.10mØ	40 △†				5.0p	PE	TO18 AØ
45#	AT420	360m	250M§△	2.1m	§J	50	30	5.0	500m	200nØ	10Ø	150mØ	30 †△				8.0pØ	PE	TO18 AØ
46#	AT421	360m	250M§△	2.1m	§J	50	30	5.0	500m	200n	10Ø	150mØ	100 △				8.0pØ	PE	TO18 AØ
47#	AT422	360m	250M§△	2.1m	§J	50	45	5.0	500m	200n	10Ø	150mØ	30 △				8.0pØ	PE	TO18 AØ
48#	AT423	360m	250M§△	2.1m	§J	50	45	5.0	500m	200n	10Ø	150mØ	100 △				8.0pØ	PE	TO18 AØ
49#	AT424	360m	250M§△	2.1m	§J	50	30	5.0	500m	200n	10Ø	150mØ	30 △				8.0pØ	PE	TO18 AØ
50#	AT425	360m	250M△§	2.1m	§J	50	45	5.0	500m	200n	10Ø	150mØ	30 △				8.0pØ	PE	TO18 AØ
51#	BSV85†	360m	250M§	2.2m	§J	50	30	5.0	1.0	10u	10Ø	150mØ	80 †				8.0p	PE	TO18 A
52	C63	360m	250M§△	2.0m	§A	50	35	5.0		25nØ	5.0	10mØ	35 †△				3.0pØ	PL	TO18
53	C64	360m	250M§△	2.0m	§A	50	35	5.0		25nØ	5.0	10mØ	65 †△				3.0pØ	PL	TO18
54	FM2846†	360m	250M§△	2.0m	§J	60	30	5.0		200nØ	10Ø	150mØ	30 †△#				8.0pØ	PE	TO46 Ø
55	LDS206†	360m	250M								5.0Ø	1.0mØ	100 †				6.0p		TO122 P
56#	PET3903	360m	250M§△	3.5m	♦J	60	40	6.0	200m	500m#	1.0Ø	10mØ	50 †△				4.0p	PE	R110 A
57#	PET4123	360m	250M§△	3.5m	♦J	40	30	5.0	200m	500mØ	1.0Ø	2.0mØ	50 †△				4.0p	PE	R110 A
58	PPT720	360m	250M§△	2.0m	§J	25	15	5.0	200m	.50uØ	10Ø	.10mØ	40 †△				5.0p	PL	TO46
59	PT2760	360m	250M§△	2.0m	§J	35	20	4.0	200m	15uØ	10Ø	1.0mØ	40 †△				5.0p	PE†	TO18
60#	ST43	360m	250M§△		§S	75	50	5.0		25nØ	5.0Ø	10mØ	100 †#△				5.0pØ	PE△	TO18 Ø
61	TE4951†	360m	250M§△	2.9m	$S	60	30	5.0	500m	50nØ	10Ø	150mØ	60 †#△				8.0p$Ø		TO106 A
62	TE4952†	360m	250M§△	2.9m	$S	60	30	5.0	500m	50nØ	10Ø	150mØ	100 †#△				8.0p$Ø		TO106 A
63	TE4953†	360m	250M§△	2.9m	$S	60	30	5.0	500m	50nØ	10Ø	150mØ	200 †#△				8.0p$Ø		TO106 A
64	TE4954†	360m	250M§△	2.9m	$S	40	30	5.0	500m	50nØ	10Ø	150mØ	60 †#△				8.0p$Ø		TO106 A
65	TE5368†	360m	250M§△	2.9m	$J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †△				8.0p$Ø		TO106 A
66	TE5369†	360m	250M§△	2.9m	$J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	50 †△				8.0p$Ø		TO106 A
67	TE5370†	360m	250M§△	2.9m	$J	60	30	5.0	500m	50nØ	10Ø	1.0mØ	75 †△				8.0p$Ø		TO106 A
68	TE5371†	360m	250M§△	2.9m	$J	40	30	5.0	500m	50nØ	10Ø	1.0mØ	20 †△				8.0p$Ø		TO106 A
69	TP4123	360m	250M§△	2.8m	$J	40	30	5.0	200m	50nØ	1.0Ø	2.0mØ	50 †#△				4.0p$Ø	PLØ△	X55a A
70	2N784A/46†	360m	300M§	2.0m	§J	40	20 §	5.0	200m	100u	1.0Ø	10mØ	88 †				3.5pØ	E	TO46 AØ
71	2N784A/51†	360m	300M§△	2.0m	▼J	40	20 §	5.0	200m	100u	1.0Ø	10mØ	88 †				3.5pØ		TO51 AØ
72	2N914A†	360m	300M§△	2.1m	§J	40	15	5.0		5.0nØ	1.0Ø	10mØ	30 †#△						TO18 AØ
73	2N2272†	360m	300M§△	2.0m	§J	40	15	5.0	500m	25nØ	1.0Ø	10mØ	60 †△#				6.0pØ		TO18 Ø
74	2N5144§	360m	300M§△	2.0m	§J	50	30	6.0	500m	1.7uØ	1.0Ø	10mØ	30 †#△				12p$Ø	△	TO18 AØ
75#	2SC62†	360m	300M§△	2.0m	§J	40	15	5.0	50m	.02uØ	10Ø	10mØ	3.0				6.0p	PL	TO18
76	40219†	360m	300M§△	2.0m	§J	40	15	5.0		30nØ	1.0Ø	10mØ	30 †△				6.0pØ	PE	TO52 Ø
77	40221†	360m	300M§△	2.0m	§J	40	15	5.0		30nØ	1.0Ø	10mØ	30 †△				6.0pØ	PE	TO52 Ø
78#	AT370	360m	300M△§	2.1m	§J	30	30	4.0	100m	100nØ	10Ø	10mØ	20 †△					PE	TO18 AØ
79#	AT426	360m	300M	2.0m	§J	50	30	5.0	500m	200n	1.0Ø	50mØ	100 †#△				8.0pØ	PE	TO18 A
80#	AT427	360m	300M	2.0m	§J	50	45	5.0	500m	200n	1.0Ø	50mØ	100 †#△				8.0pØ	PE	TO18 A
81#	PET3904	360m	300M§△	3.5m	♦J	60	40	6.0	200m	50m#	1.0Ø	10mØ	100 †△				4.0p	PE	R110 A
82#	PET4124	360m	300M§△	3.5m	♦J	30	25	5.0	200m	50mØ	1.0Ø	2.0mØ	120 †△				4.0p	PE	R110 A
83	PET9021†	360m	300M§△	3.6m	♦J	40	15	5.0	500m	.05uØ	1.0Ø	10mØ	30 †△				6pØ	PE	R110 A
84	PET9022†	360m	300M§△	3.6m	♦J	25	12	5.0	500m	.05uØ	1.0Ø	10mØ	30 †△				6pØ	PE	R110 A
85#	ST02†	360m	300M§△		§S	40	20	5.0		20nØ	1.0Ø	10mØ	20 †△				6.0pØ	PE△	TO18 Ø
86#	ST03†	360m	300M§△		§S	40	20	5.0		20nØ	1.0Ø	10mØ	20 †△				6.0pØ	PE△	TO18 Ø
87#	ST04†	360m	300M§△		§S	40	20	5.0		20nØ	1.0Ø	10mØ	40 †△				6.0pØ	PE△	TO18 Ø
88#	ST05†	360m	300M§△		§S	40	20	5.0		20nØ	1.0Ø	10mØ	100 †△				6.0pØ	PE△	TO18 Ø
89#	ST58†	360m	300M§△		§S	40	15	5.0		25nØ	1.0Ø	10mØ	30 †#△				6.0pØ	PE△	TO18 Ø
90#	ST59†	360m	300M§△		§S	40	15	5.0		25nØ	1.0Ø	10mØ	30 †#△				9.0pØ	PE△	TO18 Ø
91	TE5376	360m	300M§△	2.8m	$J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	120 △	200nØb	32 Ø		8.0p$Ø		TO106 A
92	TE5377	360m	300M§△	2.8m	$J	60	30	5.0	500m	10nØ	5.0Ø	1.0mØ	100 △	200nØb	32 Ø		8.0p$Ø		TO106 A
93	TIS45†	360m	300M§△	2.9m	$J	40	15	5.0	200m	.05uØ	1.0Ø	50mØ	15 †△				6pØ	PE	TO92
94	TIS46†	360m	300M§△	2.9m	$J	40	15	5.0	200m	.05uØ	2.0Ø	200mØ	12 †#△				6pØ	PE	TO92
95	TP4124	360m	300M§△	2.8m	$J	30	25	5.0	200m	50nØ	1.0Ø	2.0mØ	120 †#△				4.0p$Ø	PLØ△	X55a A
96#	C722†	360m	350M§		§						1.0Ø	10mØ	120 †				3.0p	PE	TO18 A
97#	C742	360m	350M§	6.8m	§J	30	30	5.0		200p	5.0Ø	10mØ	200 †	30u	1.0k	1.2	2.6p	PL	TO39 A
98	GET2369†	360m	350M§△	3.6m	♦J	40	15	5.0	200m	10u	1.0Ø	10mØ	40 †△				4.5p$	PE△	TO18
99#	ST64†	360m	350M§△		§S	40	20	5.0		50nØ	1.0Ø	1.0mØ	30 †#△				4.0pØ	PE△	TO18 Ø
100	TIS52	360m	350M§△	2.9m	$J	40	20	5.0	200m	.5u§Ø	1.0Ø	300mØ	25 †#△				5pØ	PE	TO92
101	TIS55	360m	350M§△	2.9m	$J	40	15	5.0	200m	.5u§Ø	1.0Ø	300mØ	15 †#△				5pØ	PE	TO92
102#	BSX19Ø†	360m	400M§△	2.1m	§J	40	15	4.5	500m#	.40uØ	1.0Ø	10mØ	20 †△					PE	TO18 AØ
103#	C1001†	360m	400M		§						1.0Ø	10mØ	40				4.0p		TO18 A
104	PET6001	360m	400M§	3.6m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	65	140u	250	2.0	5p$	PE	R110 A
105	PET9001†	360m	400M§△	3.6m	♦J	40	15	4.5	300m	.50uØ	1.0Ø	10mØ	40 †△				4pØ	PE	R110 A
106	PET9001A†	360m	400M§△	3.6m	♦J	40	15	4.5	300m	.50uØ	1.0Ø	10mØ	40 †△				4pØ	PE	R110 A
107	PET9002†	360m	400M§△	3.6m	♦J	30	12	4.5	300m	.50uØ	1.0Ø	10mØ	30 †△				4pØ	PE	R110 A
108	PET9002A†	360m	400M§△	3.6m	♦J	30	12	4.5	300m	.50uØ	1.0Ø	10mØ	30 †△				4pØ	PE	R110 A
109	PMT117	360m	400M	1.7m	§J	25	15	5.0	220m	10u	10Ø	10m	4.0				5.0p	ME	u6
110	PMT217	360m	400M	1.7m	§J	25	15	5.0	220m	10u	10Ø	10m	4.0				5.0p	ME	TO51

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] MAX. COLL. DISS. @25°C (W)	[2] fab (Hz)	DERATE IN FREE AIR W/°C	T MAX	E MAX P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	BIAS hfe	COMMON EMITTER hoe (mhos)	COMMON EMITTER hie (Ω)	COMMON EMITTER hre X.0001	Cob (F)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1#	ST60†	360m	400M§△		§S	40	15	5.0		50nØ	1.0Ø	10mØ	30 †#△				4.0pØ	PE△	TO18	Ø
2#	ST61†	360m	400M§△		§S	40	15	5.0		50nØ	1.0Ø	10mØ	20 †#△				4.0pØ	PE△	TO18	Ø
3#	ST62†	360m	400M§△		§S	40	15	5.0		50nØ	1.0Ø	10mØ	40 †#△				4.0pØ	PE△	TO18	Ø
4#	ST80†	360m	400M§△		§S	40	15	5.0	200m	50nØ	1.0Ø	10mØ	25 †#△				4.0pØ	PE△	TO18	Ø
5	ST6130	360m	400M§△	2.0m	§J	25	10	4.0		50nØ	1.0Ø	10mØ	30 †△				4.0pØ	PE△	TO18	AØ
6	TIS47†	360m	400M§△	2.9m	§J	40	15	4.5	200m	.40uØ	2.0Ø	100mØ	10 †#△				4pØ	PE	TO92	
7	TIS51†	360m	400M§△	2.9m	§J	30	12	5.0	200m	.40u§Ø	1.0Ø	100mØ	12 †#△				4pØ	PE	TO92	
8#	C720†	360m	420M§		§						1.0Ø	10mØ	60 †				4.5p	PE	TO18	A
9#	C740	360m	450M§	6.8m	§J	30	30	5.0		200n	5.0Ø	1.0mØ	260 †	20u	8.5	3.2	3.0p	PL	TO18	A
10	PET6002	360m	450M§	3.6m	♦J	40	30	5.0	750m	.05u§	5.0Ø	10mØ	125	200u	400	2.0	5p§	PE	R110	A
11	PT3760	360m	460M§△	2.0m	§J	60	30	4.0	100m	.01uØ	1.0Ø	10mØ	50 †△				5pØ	PL	TO18	
12	2N708/46†	360m	480M△	2.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	30 △				6.0pØ	PL	TO46	
13	2N708/51†	360m	480M△	2.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	30 △				6.0pØ	PL	TO51	A
14	2N914/51	360m	480M△	2.0m	§J	40	15	5.0		.02uØ	1.0Ø	10mØ	30 †#△				6pØ	PE△	TO51	AØ
15	FT1341	360m	480M△	2.0m	§J	25	10	5.0		.10uØ	1.0Ø	100mØ	30 †#△				8pØ	PLE△	TO18	
16	TC0914	360m	480M△	2.0m	§J	40	15	5.0		25nØ	1.0Ø	10mØ	55 †#				4.5p	PE		
17	2N5272†	360m	500M§△	2.1m	§S	40	20	5.0	200m	.20uØ	1.0Ø	10mØ	100 †△#				4p§Ø		TO18	AØ
18#	BSX20Ø†	360m	500M§△	2.1m	§J	40	15	4.5	500m#	.40uØ	1.0Ø	10mØ	40 †△					PE	TO18	AØ
19	FT1315†	360m	500M§△	2.0m	§J	30	8.0	4.5	200m	.4u§Ø	.50Ø	50mØ	40 †#△				4pØ	DPE	TO18	AØ
20	MD1T2369†	360m	500M§		§A	40	15	4.5	200m	400nØ	10Ø	10mØ	5.0 △				4.0pØ		TO122	P
21#	ST82†	360m	500M§△	476u	§S	40	15	4.5	500m	400nØ	1.0Ø	10mØ	50 †#△				4.0pØ	PE△	TO18	Ø
22#	TIS48†	360m	500M§△	2.9m	§J	40	15	4.5	200m	400nØ	2.0Ø	100mØ	20 †#△				4.0pØ	PE	TO92	B
23#	TIS49†	360m	500M§△	2.9m	§J	40	15	4.5	200m	3.0u†Ø	1.0Ø	100mØ	20 †#△				4.0pØ	PE	TO92	B
24#	C652	360m	550M§	2.0m	§	35	15	5.0		500u§	1.0Ø	10mØ	50 †				3.0p	PE	TO18	A
25	2N3682	360m	600M§△	2.0m	§C	40	15	4.5	200m	400nØ	1.0Ø	10mØ	120 †Ø				4.0pØ		TO18	Ø
26#	ST70	360m	600M§△		§S	30	15	3.0		10nØ	1.0Ø	3.0mØ	20 †△				2.0pØ	PE	TO18	Ø
27	FT1324C	360m	640M△	2.0m	§J	25	10	4.5	500m	.40uØ	1.0Ø	10mØ	20 †#△				5pØ	PLE△	R64	
28#	2SC957	360m	700M§		#J	30	30	3.0	100m	300nØ	3.0Ø	1.0mØ	13 †△				1.1p†Ø	DM	R90a	J
29	LDA414	360m	700M§	2.9m	§J	55	30	3.5	150m	20u△	15Ø	25mØ	7.0				3.0p§Ø	PE	TO122	P
30#	2SC613†	360m	750M§		§J	40	15	5.0	200m	10u	1.0Ø	10mØ	80 †				1.5p	PE	TO18	
31	NS9726§	360m	750M§	2.0m	§A	45	30	4.0		.10uØ	10Ø	10mØ	150 †△				3.5pØ	PE	R038w	
32	2N5292§	360m	800M§△	2.1m	§J	12	12	4.5	100m	1n§	1.0Ø	100m	30 †△#				4.5p§Ø	△	TO18	AØ
33	FT1324B	360m	800M△	2.0m	§J	25	10	4.5	500m	.40uØ	1.0Ø	10mØ	40 †△#				5pØ	PLE△	R64	
34	TC2369A†	360m	800M△	2.0m	§J	40	15	4.5	500m	.40uØ	1.0Ø	10mØ	40 †△				4pØ	PE		
35	2N5263	360m	1.0G§△	2.9m	§J	30	15	2.5	25m	.01uØ	5.0Ø	2.0mØ	20 △					PEØ	u34	A
36	TDA407	360m	1.0G§△	2.9m	§J	30	15	2.5	25m	10nØ	5.0Ø	15mØ	25 †△				1.0pØ§	PE	u103	F
37#	FM720A	375m	50M§△	2.1m	§J	120	80	7.0		10nØ	10Ø	150mØ	40 †△#	500nØb	30 Ø	1.3 Ø	15pØ	PL	TO46	Ø
38#	FM911	375m	50M§△	2.1m	§J	100	60	7.0		25nØ	5.0Ø	1.0mØ	65	10ub	600	450m	15pØ	PL	TO46	Ø
39#	FM1893	375m	50M§△	2.1m	§J	120	80	7.0		10nØ	5.0Ø	1.0mØ	70	11u	2.8k	3.5	15pØ	PL	TO46	Ø
40#	FM910	375m	60M§△	2.1m	§J	100	60	7.0		25nØ	5.0Ø	1.0mØ	125	130nb	26	750m	15pØ	PL	TO46	Ø
41#	FM1613	375m	60M§△	2.1m	§J	75	50 §	7.0		10nØ	5.0Ø	1.0mØ	55	12u	2.2k	3.6	25pØ	PL	TO46	Ø
42#	FM1711	375m	70M§△	2.1m	§J	75	50 §	7.0		10nØ	5.0Ø	1.0mØ	115	23u	4.4k	7.3	25pØ	PL	TO46	Ø
43	FM870	375m	80.M△	2.1m	§J	100	60	7.0		.01uØ	10Ø	150mØ	75 †#	9.0u	2.3k	3.0	15pØ	PL△	TO46	AØ
44	FM871	375m	96M△	2.1m	§J	100	60	7.0		10nØ	10Ø	150mØ	130 †#	16	3.5k	4.6	15pØ	PL△	TO46	AØ
45	CDQ10032	385m	500k	2.8m	§A	30	30	20	50m	100n	.50	100u△	25	40u	1.7k		20p	PL†	TO5	Ø
46#	2SC814	400m		4.0m	♦J	30	18	5.0	500m	200nØ	5.0Ø	50mØ	150 †						X28a	B
47#	2SD228	400m			§J	30	15	5.0	300m	100n	1.0Ø	300mØ	120 †					PE	X28a	B
48	MD1T3704	400m			§A	50	30	5.0	200m	100nØ	2.0Ø	50mØ	100 †#△				12pØ		TO122	P
49	RT1252M	400m		2.3m	§J	30		5.0		10uØ	10Ø	150mØ	35 †#				30p	PL	TO46	
50	RT1253M	400m		2.3m	§J	30		5.0		10uØ	10Ø	150mØ	45 †#				30p	PL△	TO46	
51	RT1409M	400m		2.3m	§J	30		4.0		10uØ	10Ø	150mØ	45 †#Ø				20p	PL△	TO46	
52	RT1410M	400m		2.3m	§J	45		4.0		10uØ	10Ø	150mØ	90 †#Ø				20p	PL△	TO46	
53#	AT380	400m	60M§△	2.3m	§J	60	40	6.0	1.0	200nØ	1.0Ø	50mØ	40 †△				25pØ	PE	TO18	AØ
54#	AT381	400m	60M§△	2.3m	§J	86	60	6.0	1.0	200n	1.0Ø	50mØ	40 △				25pØ	PE	TO18	AØ
55#	AT382	400m	60M§△	2.3m	§J	100	80	6.0	1.0	200n	1.0Ø	50mØ	40 △				25pØ	PE	TO18	AØ
56#	AT383	400m	60M§△	2.3m	§J	60	40	6.0	1.0	200n	1.0Ø	50mØ	100 △				25pØ	PE	TO18	AØ
57#	AT384	400m	60M§△	2.3m	§J	80	60	6.0	1.0	200n	1.0Ø	50mØ	100 △				25pØ	PE	TO18	AØ
58#	AT385	400m	60M§△	2.3m	§J	100	80	6.0	1.0	200n	1.0Ø	50mØ	100 △				25pØ	PE	TO18	AØ
59#	AT386	400m	60M§△	2.3m	§J	60	40	6.0	1.0	200n	1.0Ø	50mØ	40 △				25pØ	PE	TO18	AØ
60#	AT387	400m	60M§△	2.3m	§J	80	60	6.0	1.0	200n	1.0Ø	50mØ	40 △				25pØ	PE	TO18	AØ
61#	AT388	400m	60M§△	2.3m	§J	100	80	6.0	1.0	200n	1.0Ø	50mØ	40 △				25pØ	PE	TO18	AØ
62	S18200†	400m	60M§△	2.3m	§J	100	60	7.0		.01u§Ø	1.0Ø	150mØ	40 †#△				20pØ	DPE	TO50	A
63	NS475	400m	80M△	2.2m	§	30	30	6.0	50m	200n	5.0	1.0m	35	1.0nØb	80 Ø	10 Ø	8.0pØ	ME△	TO46	
64	NS476	400m	80M△	2.2m	§	30	30	6.0	50m	50u	5.0	1.0m	70	1.0nØb	80 Ø	10 Ø	8.0pØ	ME△	TO46	
65	NS477	400m	80M△	2.2m	§	30	30	6.0	50m	50u	5.0	1.0m	190	1.0nØb	80 Ø	10 Ø	8.0pØ	ME△	TO46	
66	NS478	400m	80M△	2.2m	§	60	60	8.0	50m	50u	5.0	1.0m	35	1.0nØb	80 Ø	10 Ø	8.0pØ	ME	TO46	
67	NS479	400m	80M△	2.2m	§	60	60	8.0	50m	50u	5.0	1.0m	70	1.0nØb	80 Ø	10 Ø	8.0pØ	ME	TO46	
68	NS480	400m	80M△	2.2m	§	60	60	8.0	50m	50u	5.0	1.0m	190	1.0nØb	80 Ø	10 Ø	8.0pØ	ME	TO46	
69	NS731	400m	80M	2.2m	§J	15	15	4.0	100m	1.0uØ	5.0Ø	1.0mØ	33	800nb	35	6.0	5.0p	ME△	TO18	
70	NS731A	400m	80M	2.6m	§J	15	15	4.0		100nØ	5.0Ø	100uØ	20 △	800nb	35	6.0	5.0p		TO18	
71	NS732	400m	80M	2.2m	§J	15	15	4.0	100m	1.0uØ	5.0Ø	1.0mØ	83	800nb	35	6.0	5.0p	ME△	TO18	
72	NS732A	400m	80M	2.6m	§J	15	15	4.0		100nØ	5.0Ø	100uØ	80 △	800nb	35	6.0	5.0p		TO18	
73	NS733	400m	80M	2.2m	§J	30	30	4.0	100m	1.0uØ	5.0Ø	1.0mØ	35	800nb	35	6.0	5.0p	ME△	TO18	
74	NS733A	400m	80M	2.6m	§J	30	30	4.0		100nØ	5.0Ø	100uØ	20 △	800nb	35	6.0	5.0p		TO18	
75	NS734	400m	80M	2.2m	§J	30	30	4.0	100m	1.0uØ	5.0Ø	1.0mØ	80	800nb	35	6.0	5.0p	ME△	TO18	
76	NS734A	400m	80M	2.6m	§J	30	30	4.0		100nØ	5.0Ø	100uØ	80 △	800nb	35	6.0	5.0p		TO18	
77	NS1972	400m	90M§		§J	25	15	5.0		100n	5.0Ø	100uØ	40 †△	500nb	27	6.0	5.0p		TO18	A
78	NS1973	400m	90M§		§J	25	15	5.0		100n	5.0Ø	100uØ	100 †△	500nb	27	6.0	5.0p		TO18	A
79	NS1974	400m	90M§		§J	25	15	5.0		100n	5.0Ø	100uØ	40 †△	500nb	27	6.0	5.0p		TO46	
80	NS1975	400m	90M§		§J	25	15	5.0		100n	5.0Ø	100uØ	100 †△	500nb	27	6.0	5.0p		TO46	
81	2N1964†	400m	100M§△	2.7m	§J	60	40 §	5.0	500m	.50uØ	10Ø	150mØ	20 †△				18pØ		TO46	AØ
82	2N1964/46†	400m	100M§△		§J	60	40 §	5.0	500m	.50u	10Ø	150mØ	40 †				18pØ	E	TO46	AØ
83	2N1965†	400m	100M§△	2.7m	§J	60	40 §	5.0	500m	.50uØ	10Ø	150mØ	40 †△				18pØ		TO46	AØ
84	2N1965/46†	400m	100M§△		§J	60	40 §	5.0	500m	100u	10Ø	150mØ	80				18pØ	E	TO46	
85	2N4315*	400m	100M§△	2.6m	§S	30	25	5.0	50m	.01uØ	5.0Ø	.01mØ	100 †△				6pØ	PE*Ø	L2b	
86	ST6593	400m	100M§△	2.2m	§J	60	30	5.0		50nØ	10Ø	150mØ	20 †△				10pØ	PE	TO18	Ø
87	ST6594	400m	100M§△	2.2m	§J	60	30	5.0		50nØ	10Ø	150mØ	100 †△				10pØ	PE	TO18	Ø
88	D33D1	400m	112M§△	4.0m	♦J	40	30	5.0	500m	100n	5.0Ø	100uØ	25M†△				10p§Ø	PE†	TO98	B
89	D33D4	400m	112M§△	4.0m	♦J	50	40	5.0	500m	100n	5.0Ø	100uØ	25M†△				10p§Ø	PE†	TO98	B
90	D33D2	400m	150M§△	4.0m	♦J	40	30	5.0	500m	100n	5.0Ø	100uØ	65M†△				10p§Ø	PE†	TO98	B
91	D33D3	400m	150M§△	4.0m	♦J	40	30	5.0	500m	100n	5.0Ø	100uØ	130M†△				10p§Ø	PE†	TO98	B
92	D33D5	400m	150M§△	4.0m	♦J	50	40	5.0	500m	100n	5.0Ø	100uØ	65M†△				10p§Ø	PE†	TO98	B
93	D33D6	400m	150M§△	4.0m	♦J	50	40	5.0	500m	100n	5.0Ø	100uØ	130M†△				10p§Ø	PE†	TO98	B
94	RT409E	400m	150M	3.0m	§J	60		5.0		.50u	10	150m	40 †				15p	PL	TO46	
95	RT696AM	400m	150M	4.5m	§J	60		5.0		100nØ	10Ø	5.0mØ	45 †	500nb	5.4	1.0	20	PL△	TO46	
96	RT697AM	400m	150M	2.6m	§	60		5.0		100nØ	10	10mØ	70 †#	500nb	5.4	1.0	20	PL△	TO46	
97	ST6600	400m	150M§△	2.2m	§J	50	30	5.0		50nØ	10Ø	150mØ	40 †△				11pØ	PE	TO18	Ø
98#	FT005	400m	175M§	3.2m	§S	50	25	6.0	75m	100u	15Ø	6.0mØ	35	120u	600		7pØ	ME	TO5	
99#	FT006	400m	175M§	3.2m	§S	50	25	6.0	75m	100u	15Ø	6.0mØ	70	120u	600		7pØ	ME	TO5	
100	RT698M	400m	180M	4.0m	§J	120		5.0		5.0n	10Ø	150mØ	40 †#				14	PL△	TO46	
101	RT719M†	400m	180M	2.3m	§J	120		5.0		2.0uØ	10Ø	150mØ	30 †#				14p	PL△	TO46	
102	2N706A/46†	400m	200M§△	3.3m	§J	25	15	5.0		10u	1.0Ø	10mØ	20				3.5p	ME	TO46	
103	2N706C/46†	400m	200M§△	2.3m	§J	40	15	5.0	200m	1.0uØ	1.0Ø	10mØ	20 †△				5pØ	E	TO46	
104	2N1962†	400m	200M§△	2.7m	§J	40	20 §	5.0	200m	.25uØ	1.0Ø	10mØ	20 †△				3.5pØ		TO46	AØ
105	2N1962/46†	400m	200M§△		§J	40	20	5.0	200m	.25u	1.0Ø	10mØ	50 †				3.5pØ	E	TO46	AØ
106	2N1963†	400m	200M§△	2.7m	§J	30	15 §	5.0	200m	.25uØ	1.0Ø	10mØ	25 †△				3.5pØ		TO46	AØ
107	2N1963/46†	400m	200M§△		§J	30	15	5.0	200m	100u	1.0Ø	10mØ	25 †△				3 5pØ	E	TO46	
108	2N2096A	400m	200M§△			60	60	5.0		.01u		1.0mØ	40 †				8.0p	PE	TO18	
109	2N2097A	400m	200M§△			60	60	5.0		.01u		1.0mØ	100 †				8.0p	PE	TO18	
110	2N2618/46	400m	200M§△	1.7m	▼J	60	40	7.0	750m	250nØ	10Ø	10mØ	30 †△				14pØ	EM	TO46	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M A X	E M P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUC -TURE	DWG Y200 s/a TO200 Ser.	#L E A D	C O D E
1#	BC337-01	400m	200M§	4.0m	♦J			45	5.0	500m	100n	1.0Ø	100mØ	100 †△				5.0p$	PE	MM10	A	
2#	BC338-01	400m	200M§	4.0m	♦J			25	5.0	500m	100n	1.0Ø	100mØ	100 †△				5.0p$	PE	MM10	A	
3#	BSX97†	400m	200M§△	2.6m	§J	40		25	5.0	500m	10nØ	10Ø	500mØ	20 △				8.0pØ	E△	TO18		Ø
4	PT1836	400m	200M	2.6m	§J	45		30 §	4.0		.50u	10Ø	150mØ	90 †Ø				24p	PL△	TO18		
5	PT1837	400m	200M	2.6m	§J	80		50 §	8.0		.50uØ	10Ø	150mØ	120 †Ø					PL△	TO18	A	
6#	SDD3000	400m	200M§△	3.2m	§S	30		20	3.0	100m	100u	15Ø	6.0mØ	15 △				10p		TO5		
7#	FT052	400m	275M	3.1m	§S	60		40	3.0	100m	100u	15	6.0m	40				5pØ	ME	TO5		
8#	FT008	400m	300M§	3.2m	§S	50		30	5.0	75m	100u	15Ø	6.0mØ	30	150u	600		4pØ	ME	TO5		
9#	FT008A	400m	300M§	3.2m	§S	50		30	5.0	75m	100u	15Ø	6.0mØ	60	150u	1.2k		4pØ	ME	TO5		
10#	FT053	400m	300M	3.1m	§S	100		60	5.0	100m	100u	15	6.0m	60				5pØ	ME	TO5		
11	MM709	400m	300M§△			15		8.0	4.0				10mØ	15 †△				3pØ	AN△	TO52		
12	QD100-78*	400m	300M§△	2.3m	§S	25		15	6.5	20m	1.0nØ	5.0Ø	10uØ	150 †△	40uØ			3.0pØ	*	L2d		
13#	C762	400m	350M§		§J	25		40 Ø	5.0		200u§	10Ø	50mØ	110 †	400u	350	5.0	5.0p	PL	TO18	A	
14	2N706B/46†	400m	400M§△	3.3m	§J	25		20 §	5.0		10u	1.0Ø	10mØ	40 †				4.5p	ME	TO46		
15	2N743/46†	400m	400M§	3.3m	§J	20		12	5.0	200m		.35Ø	10mØ	40 †				5pØ	EM	TO46		
16	2N744/46†	400m	400M§	3.3m	§J	20		12	5.0	200m		.35Ø	10mØ	80 †				5pØ	EM	TO46		
17#	BSX94A	400m	400M§	2.2m	§J	60		30	5.0		10n	10Ø	150mØ	40 †	405n	350	5.0	6.0p	PE	TO18		
18	QD101-78*	400m	400M§△	2.3m	§S	45		45	6.5	20m	200pØ	5.0Ø	10uØ	150 †△	40uØ			2.0pØ	*	L2d		
19	QD102-78*	400m	400M§△	2.3m	§S	30		30	6.5	20m	200pØ	5.0Ø	10uØ	200 †△	40uØ			2.0pØ	*	L2d		
20	QD103-78*	400m	400M§△	2.3m	§S	45		45	6.5	20m	200pØ	5.0Ø	10uØ	200 †△	40uØ			2.0pØ	*	L2d		
21	QD104-78*	400m	400M§△	2.3m	§S	45		45	6.5	20m	200pØ	5.0Ø	10uØ	200 †△	40uØ			2.0pØ	*	L2d		
22	TIS89	400m	500M§△	3.2m	§S	35		35	4.0	50m	50nØ	10Ø	4.0mØ	30 †△#				330f†	PE†	X55	C	
23	SE5037	400m	600M§△	2.2m	§J	45		40 Ø*	4.0		50nØ	10Ø	10mØ	80 †				850f†	DPE	TO18	CØ	
24	2N709A/46†	400m	800M§	2.2m	§J	15		6.0	4.0		5.0nØ	.50Ø	10mØ	60 †				3.0pØ		TO46		
25	2N2475/46†	400m	800M§	2.3m	§J	15		6.0	4.0		10u	.40Ø	20mØ	50 †				2.4p	PE	TO46		
26	2N918/46	400m	960M△	2.3m	§J	30		15	3.0		.01uØ	3.0	30mØ	20 †△				1.7pØ	PEØ△	TO46		
27	2N3633/46	400m	1.3G§	2.3m		15		6.0	4.0	50m	5nØ	.50Ø	10mØ	150 †Ø				2.5pØ	PE	TO46		
28	AT50	400mØ	3.5G§	2.2mØ	§J	20		12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f$Ø	PEØ	u77b	Y	
29	AT51	400mØ	3.5G§	2.2mØ	§J	20		12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f$Ø	PEØ	u77b	Y	
30	AT52	400mØ	3.5G§	2.2mØ	§J	20		12	3.0	100m	20nØ	10Ø	15mØ	75 †				500f$Ø	PEØ	u77b	Y	
31	AT50A	400m	4.0G§	2.3m	§J	20		12	3.0	100m	20nØ	10Ø	15mØ	20 †				500f$	PEØ	u77c	GJ	
32	AT201A	400mØ	4.0G§	2.2m	§J	20		15	3.0	100m	20nØ	7.0Ø	15mØ	50 †				500f$Ø	PEØ	u77c	Y	
33	AT240	400mØ	4.0G§	2.2mØ	§J	20		12	3.0	100m	20nØ	10Ø	15mØ	50 †				500f$Ø	PEØ	u77b	Y	
34	AT240A	400mØ	4.0G§	2.2mØ	§J	20		12	3.0	100m	10nØ	7.0Ø	15mØ	50 †				500f$	PEØ	u77d	Y	
35	AT241	400mØ	4.0G§	2.2mØ	§J	20		12	3.0	100m	20nØ	10Ø	15mØ	50 †				500f$Ø	PEØ	u77b	Y	
36	AT242	400mØ	4.0G§	2.2mØ	§J	20		12	3.0	100m	20nØ	10Ø	15mØ	50 †				500f$Ø	PEØ	u77b	Y	
37	AT202	400mØ	4.5G§	2.3m	§J	20		15	3.0	100m	20nØ	10Ø	15mØ	20 †				500f$	PEØ	u77c	GJ	
38	35825B	400m	8.0GØ	6.7mØ	§J	30		20	1.5	35m	10uØ	15Ø	150u△	125 Ø				800f		u77g	S	
39	35825E0pt200	400m	8.0GØ	6.7mØ	§J	30		20	1.5	35m	10uØ	15Ø	150u△	125 Ø				400f	Ø	u77g	AD	
40#	MC104	450mØ		5.0m	§J	60				200m	5.0u	1.0Ø	10mØ	10								
41#	MC105	450mØ		5.0m	§J	100				200m	5.0u	1.0Ø	10mØ	10								
42#	MC106	450mØ		5.0m	§J	60				300m	5.0u	1.0Ø	10mØ	10								
43	TE1990	450m		3.5m	§J	100			3.0	1.0u	10u#	10Ø	30 Ø	20 †△#						TO105	AØ	
44#	BCY13	450mØ	.40M	5.0m	§J			60	10	200m		1.0Ø	100mØ	15 †					A	R23		
45#	BCY14	450mØ	.40M	5.0m	§J		100		10	200m		1.0Ø	100mØ	15 †					A	R23		
46#	BCY15	450mØ	.40M	5.0m	§J			60	10	300m		1.0Ø	100mØ	15 †					A	R23		
47#	BCY16	450mØ	.40M	5.0m	§J		100		10	300m		1.0Ø	100mØ	15 †					A	R23		
48	SE7015	450m	50M§△	4.5m	♦J	100	100		6.0		10nØ	10Ø	25mØ	50 †#△				3.5p$Ø	PL	TO105	A	
49	SE7016	450m	50M§△	4.5m	♦J	140	140		6.0		10nØ	10Ø	25mØ	50 †#△				3.5p$Ø	PL	TO105	A	
50	SE7017	450m	50M§△	4.5m	♦J	180	180		6.0		10nØ	10Ø	25mØ	50 †#△				3p$Ø	PL	TO105	A	
51	CS696†	450m	64.MΔ			60	40 §		5.0		1.0uØ	10Ø	150mØ	20 #△				35pØ	D	R97		
52	CS1893	450m	80.MΔ			120	80		7.0		.01uØ	10Ø	150mØ	80 †#	11u	2.8k	3.5	15pØ	PL△	R97		
53	TE697†	450m	80MΔ			60	40 §		5.0		1.0uØ			40 △#	12u	2.2k	3.6	35pØ	D	R97		
54	TE1420†	450m	80MΔ			60	30 §		5.0		1.0uØ	10Ø	150nØ	150 †#				35pØ	D	R97		
55	CS1613	450m	130M			75	50 §		7.0		10nØ	10Ø	150mØ	80 †#	12u	2.2k	3.6	25pØ	PL†△	R97		
56	RT7007E	450m	150M	3.0m	§J	60			5.0		.50u	10Ø	150mØ	40 †				15p	ME	TO18		
57	CS1711	450m	160M			75	50 §		7.0		10nØ	10Ø	150mØ	130 †	23u	4.4k	7.3	25pØ	PLØ△	R97		
58#	BC210	450m	250M§	3.0m	§J	50	25		5.0	700m	.10uØ	1.0Ø	150m	20 †△				8pØ		TO18	A	
59	FT3641†	450m	250M§△	4.5m	♦J	60	30		5.0		.05u§Ø	10Ø	10mØ	90	55u	460	1.3	8pØ	DPE	R124bd	A	
60	FT3642†	450m	250M§△	4.5m	♦J	60	45		5.0		.05u§Ø	10Ø	10mØ	90	55u	460	1.3	8pØ	DPE	R124bd	A	
61	FT3643†	450m	250M§△	4.5m	♦J	60	30		5.0		.05u§Ø	10Ø	10mØ	170	83u	950	2.0	58pØ	DPE	R124bd	A	
62	CS2218†	450m	400M§			60	30		5.0		.01uØ	10Ø	150mØ	80 †#				4.0p		R97		
63	CS2219†	450m	400M§			60	30		5.0		.01uØ	10Ø	150mØ	150 †#				4.0p		R97		
64	A214	450m	1.2G§	18m	§J	40	25		3.0	150m	10uØ	5.0	50m	25 △†				2.8p	PE	TO46	A	
65	11B1259	500m		2.8m	§J	100	60		7.0			10Ø	150mØ	80 †△	1.0uØb	8.0 Ø	4.0 Ø	15pØ	PL†	TO18		
66	K4002	500mØ		5.0m	♦J	30	12		2.0		.50uØ	10Ø	8.0mØ	20 †△				2pØ	Ø	R38		
67	703B	500m	10M§△	3.3m	§A	60			3.0	50m	1.0u	5.0Ø	1.0m	37 △	1.2uØb	38	10 Ø	20pØ		TO5	A	
68	CDQ10002	500m	10M	3.3m	§J	45	45		4.0	25m	500n	5.0	1.0m	16	250nb	25 Ø	1.2	7.0p	PL	TO5		Ø
69	NS061	500m	10M	3.3m	§J	45			4.0	25m	20u	5.0	1.0m	16	250nb	40	1.2	5.0p	ME			
70	USAF510ES030M†	500m	10M§△	3.3m	§J	60	55		3.0	50m	1.0u	5.0Ø	1.0m	37 △	1.2uØb	50 Ø	10 Ø	20pØ	GD	TO39		Ø
71	USAF510ES031M†	500m	10M§△	3.3m	§J	60	55		3.0	50m	1.0u	5.0Ø	1.0m	40 △	1.2uØb	50 Ø	10 Ø	20pØ	GD	TO39		Ø
72	CDQ10004	500m	11M	3.3m	§J	45	45		4.0	25m	500n	5.0	1.0m	30	180nb	25 Ø	1.2	7.0p	PL	TO5		Ø
73	NS064	500m	11M	3.3m	§J	45			4.0	25m	20u	5.0	1.0m	30	200nb	40	1.2	5.0p	ME			
74	CDQ10006	500m	12M	3.3m	§J	45	45		4.0	25m	500n	5.0	1.0m	38	180nb	25 Ø	1.2	7.0p	PL	TO5		Ø
75	NS067	500m	12M	3.3m	§J	45			4.0	25m	20u	5.0	1.0m	38	180nb	40	1.2	5.0p	ME			
76	CDQ10008	500m	13M	3.3m	§J	45	45		4.0	25m	500n	5.0	1.0m	52	150nb	25 Ø	1.2	7.0p	PL	TO5		Ø
77	NS070	500m	13M	3.3m	§J	45			4.0	25m	20u	5.0	1.0m	52	150nb	40	1.2	5.0p	ME			
78	CDQ10010	500m	15M	3.3m	§J	45	45		4.0	25m	500n	5.0	1.0m	95	1.3ub	25 Ø	1.2	70p	PL	TO5		Ø
79	NS073	500m	15M	3.3m	§J	45			4.0	25m	20u	5.0	1.0m	95	150nb	40	1.2	5.0p	ME			
80#	25T2	500m	20M			30			1.0	100m	5.0u	10	5.0m	50	1.5ub	8.0	3.0					
81#	26T2	500m	20M			60			1.0	100m	5.0u	10	5.0m	50	1.5ub	8.0	3.0					
82#	28T2	500m	20M			30			1.0	100m	5.0u	10	5.0m	14	1.5ub	8.0	3.0					
83#	29T2	500m	20M			60			1.0	100m	5.0u	10	5.0m	14	1.5ub	8.0	3.0					
84	2N866†	500m	40M△§	3.0m	▼S	30	20 §		5.0	600m	100u	10Ø	150mØ	15 †△				45p		TO18		
85	2N867†	500m	50M△§	3.0m	▼S	30	20 §		5.0	600m	100u	10Ø	150mØ	30 †△				45p		TO18		
86#	BCW50	500m	50M	1.0m	§	120	120		5.0		200n	10Ø	10mØ	35 †					PL	TO18	A	
87	MD1T1893	500m	50M§		§A	120	80		7.0		10nØ	10Ø	50mØ	2.5 △				15pØ		TO122	P	
88	2N2244	500m	60M△	2.8m	§S	20	20		6.0	100m	10uØ	4.0Ø	2.0uØ	10 †	50uØ			8.0pØ	ME	TO18	A	
89	2N2245	500m	60M△	2.8m	§S	20	20		6.0	100m	10uØ	4.0Ø	2.0uØ	20 †	50uØ			8.0pØ	ME	TO18	A	
90	2N2246	500m	60M△	2.8m	§S	20	20		6.0	100m	10uØ	4.0Ø	2.0uØ	40 †	50uØ			8.0pØ	ME	TO18	A	
91	2N2247	500m	60M△	2.8m	§S	45	45		6.0	100m	10uØ	4.0Ø	2.0uØ	10 †	50uØ			8.0pØ	ME	TO18	A	
92	2N2248	500m	60M△	2.8m	§S	45	45		6.0	100m	10uØ	4.0Ø	2.0uØ	20 †	50uØ			8.0pØ	ME	TO18	A	
93	2N2249	500m	60M△	2.8m	§S	45	45		6.0	100m	10uØ	4.0Ø	2.0uØ	40 †	50uØ			8.0pØ	ME	TO18	A	
94	2N2250	500m	60M§△	2.8m	§S	25	20		6.0	500m	10nØ	5.0Ø	1.0mØ	40 △	25uØ	50 Øb	10 Øb	8.0pØ	Ø	TO18	AØ	
95	2N2251	500m	60M§△	2.8m	§S	25	20		6.0	500m	10nØ	5.0Ø	1.0mØ	80 △	30uØ	50 Øb	10 Øb	8.0pØ	Ø	TO18	AØ	
96	2N2252	500m	60M§△	2.8m	§S	25	20		6.0	500m	10nØ	5.0Ø	1.0mØ	150 △	50uØ	50 Øb	10 Øb	8.0pØ	Ø	TO18	AØ	
97	2N2253	500m	60M§△	2.8m	§S	45	50		6.0	500m	10nØ	5.0Ø	1.0mØ	40 △	25uØ	50 Øb	10 Øb	8.0pØ	Ø	TO18	AØ	
98	2N2254	500m	60M§△	2.8m	§S	45	50		6.0	500m	10nØ	5.0Ø	1.0mØ	80 △	30uØ	50 Øb	10 Øb	8.0pØ	Ø	TO18	AØ	
99	2N2255	500m	60M§△	2.8m	§S	45	50		6.0	500m	10nØ	5.0Ø	1.0mØ	150 △	50uØ	50 Øb	10 Øb	8.0pØ	Ø	TO18	AØ	
100	FT3567	500m	60M§△	5.0m	♦J	80	40		5.0		.05uØ	1.0Ø	150mØ	80 †#				16p$	DPE	R124bd	A	
101	FT3568	500m	60M§△	5.0m	♦J	80	60		5.0		.05uØ	1.0Ø	150mØ	80 †#				13p$	DPE	R124bd	A	
102	FT3569	500m	60M§△	5.0m	♦J	80	40		5.0		.05uØ	1.0Ø	150mØ	150 †#				16p$	DPE	R124bd	A	
103	JAN2N716	500m	70M§△	1.8m	▼S	70	40		5.0		10u	10Ø	15mØ	10 †#△				6.0pØ	Ø	TO18	Ø	
104	D33D28	500m	80M§△	4.5m	†J	70	60		5.0	750m		2.0Ø	2.0mØ	40 △†				15p$Ø	PE†	TO98	B	
105	NS430	500m	80.M	2.9m		10						4.0	2.0m	5.0 †△				8pØ	D	TO18		
106	NS431	500m	80.M	2.9m		10						4.0	2.0m	7.0 †△				8pØ	D	TO18		
107	NS432	500m	80.M	2.9m		10						4.0	2.0m	15 †△				8pØ	D	TO18		
108	NS433	500m	80.M	2.9m		20						4.0	2.0m	5.0 †△				8pØ	D	TO18		

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T MAX	E MAX	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	NS434	500m	80.M	2.9m			20					4.0	2.0m	7.0 †Δ				8pØ	D	TO18	
2	NS435	500m	80.M	2.9m			20					4.0	2.0m	15 †Δ				8pØ	D	TO18	
3	NS436	500m	80.M	2.9m			45					4.0	2.0m	5.0 †Δ				8pØ	D	TO18	
4	NS437	500m	80.M	2.9m			45					4.0	2.0m	7.0 †Δ				8pØ	D	TO18	
5	NS438	500m	80.M	2.9m			45					4.0	2.0m	15 †Δ				8pØ	D	TO18	
6	SA100Ø	500m	80.M	2.9m	§J		60	30	7.0		10u	5.0	10m	50 †Δ				7.0p	PL	L2	
7#	BC412	500m	90M	2.8m	§		75	35	7.0	1.0	10u	1.0Ø	150mØ	40 Δ	14u	600	1.1	13p	PE	TO18	
8	2N1444†	500m	100M	4.0m	§J			60 Ø	6.0	250m	.50uØ	5.0Ø	250mØ	25 †				32p	DME	TO29	
9	2N3082Ø	500m	100M§Δ	2.9m	§J		25	7.0	7.0	100m	.01uØ	5.0Ø	.25mØ	100 †Δ				8pØ		L1	
10	2N3083Ø	500m	100M§Δ	2.9m	§J		25	7.0	7.0	100m	.01uØ	5.0Ø	.25mØ	100 †Δ				8pØ		L1	
11#	2SC273	500m	100M§Δ		§J		120	120	5.0	1	1.0uØ	30Ø	3.0m	50				2.5p	PL	TO18	
12	40354	500m	100M§	3.3m	§J			150	5.0	50m	100nØ	10Ø	10mØ	55 †				2.8p$		R115	AØ
13	TN238†	500m	100M§Δ	2.8m	§J		35	30	5.0	800m	1.0uØ	5.0Ø	1.0mØ	30 Δ	500nØb	35 Ø		8.0pØ	PE	TO18	A
14#	2SC26	500m	150M		§J		60			100m	1.0u	10Ø	10m	50				4.0p	ME		
15#	2SC45	500m	160M§	4.0m	§J		45	25	5.0	100m	100nØ	2.0Ø	10mØ	25 †Δ				4.0p	PL	TO5	
16	NS3300Ø	500m	180M§Δ	2.9m	§J		60	45	6.0	.01m	5.0uØ	1.0Ø	100m					8.0pØ	PE	TO18	AØ
17	NS2100†	500m	200M§		§J		80	60	5.0		100nØ	10Ø	500mØ	80 †#	-	-	-	10pØ	E	TO18	Ø
18	SE8040	500m	230M§	5.0m	♦J		30	30	6.0	1.0	50nØ	1.0Ø	150mØ	70 †#				9.0p$	DPL	R124c	A
19	2N5417§	500m	250M§Δ	3.3m	§S		40	35	3.0	500m	.01uØ	10Ø	1.0mØ	35 †Δ				8p$	Δ	TO39	AØ
20	MD1T2222	500m	250M§		§A		60	30	5.0	200m	20nØ	20Ø	20mØ	2.5 Δ				8.0pØ	Δ	TO122	P
21	D32K1†	500m	275M§Δ		§J							1.0Ø	100mØ	50 †Δ				8.0p$Ø		X55a	B
22	D32K2†	500m	275M§Δ		§J							1.0Ø	100mØ	50 †Δ				8.0p$Ø		X55a	B
23	2N2222B†	500m	300M§Δ	3.3m	§S		75	40	6.0	1	.01uØ	10Ø	1.0mØ	50 Δ	35uØ	8kØ	8 Ø	8pØ	Ø	TO18	AØ
24	SE8012	500m	300M§Δ	5.0m	♦J		100	60 *Ø	6.0	500m	.50u§	1.0Ø	100mØ	40 †#Δ				9p$Ø	DPE	TO105	A
25#	2SC440	500m	400M§	2.8m	§J		25	15	5.0	100m	500nØ	10Ø	100uØ	50 †#				3.5p	PL	TO5	
26#	2SC441	500m	400M§	2.8m	§J		25	15	5.0	100m	10nØ	10Ø	100uØ	50 †#				3.5p	PL	TO5	
27#	2SC442	500m	400M§	2.8m	§J		50	20	5.0	100m	10nØ	10Ø	100uØ	50 †#				3.5p	PL	TO5	
28#	BFW71†	500m	400M§	2.9m	§J		60	60	6.5		.01uØ	10Ø	150mØ	180 †#				11p	DPL	TO18	AØ
29	SE6020A†	500m	400M§	5.0m	♦J		60	60	6.5	1	.10uØ	10Ø	1.0mØ	100 †				11p$	DPE	TO105	A
30	SE6021A†	500m	400M§	5.0m	♦J		80	80	6.5	1	.10uØ	10Ø	1.0mØ	120 †				11p$	DPE	TO105	A
31#	2SC423†	500m	500M§		§J		40		5.0	300m	1.0u	5.0Ø	20mØ	80 †				5.0p	PE	TO39	
32#	2SC425†	500m	500M§		§J		20		5.0	300m	1.0u	5.0Ø	20mØ	80 †				5.0p	PE	TO39	
33	MD2369B*	500m	500M§Δ	2.8m	§J		40	15	5.0	500m	30nØ	1.0Ø	10mØ	40 †Δ#				4.0pØ	AN Δ	L66a	
34	QD150-71	500m	550M				30	30	6.5	20m	200p				15			3.0p			
35	NS9713	500m	900M§	4.0m	§J		30	15	3.0		.01uØ	1.0Ø	3.0mØ	50 †				3pØ	EØ	X16	
36	TIS71	500m$	1.5G§Δ		§		25	15	1.0	50m	1.0u§	15Ø	15mØ	15 †Δ				1.0p$Ø	PE	u26	F
37	TIS72	500m$	1.5G§Δ		§		25	15	1.0	50m	1.0u§	15Ø	15mØ	15 †Δ				1.0p$Ø	PE	u26	F
38	CI3402	560m		4.1m			25	25	5.0	500m	100n	4.5Ø	2.0mØ	150 †					DPL†	R127a	D
39	CI3403	560m		4.1m			25	25	5.0	500m	100n	4.5Ø	2.0mØ	350 †					DPL†	R127a	D
40	CI3404	560m		4.1m			50	50	5.0	500m	100n	4.5Ø	2.0mØ	150 †					DPL†	R127a	D
41	CI3405	560m		4.1m			50	50	5.0	500m	100n	4.5Ø	2.0mØ	350 †					DPL†	R127a	D
42	CI4425	560m		4.5m			40	40	5.0	500m	100n	4.5Ø	2.0mØ	180					DPL†	R127	D
43	CS3402	560m		4.2m			25	25	5.0	500m	.10u	4.5Ø	2.0mØ	150 †					PE	R97a	
44	CS3403	560m		4.5m	$J		25	25	5.0		100nØ	4.5Ø	2.0mØ	180 Δ						†	
45	CS3404	560m		4.2m			50	50	5.0	500m	.10u	4.5Ø	2.0mØ	150 †					PE	R97a	
46	CS3405	560m		4.2m			50	50	5.0	500m	.10u	4.5Ø	2.0mØ	350 †					PE	R97a	
47	TE4425	560m		4.5m			40	40	5.0	500m	100n	4.5Ø	2.0mØ	180						R97a	
48#	BC175	560m	180M§	4.5m	$J		35	35	5.0	500m	500n	10Ø	1.0mØ	220	14u	6.1k	2.9		PE	X28	
49#	BF114	565m	80M§	4.2m	§J		135	135 §	3.0	40m	100nØ	10Ø	10mØ	20 †Δ				3.5p	PL	TO5	Ø
50#	BC100†	590m*	10.M§	4.5m	§J		350	300	7.0	150m	.06uØ	20Ø	10mØ	40 †					ME	TO5	AØ
51	2N1081	600m		5.9m	§S		40	40	10	750m	15u	7.0Ø	500mØ	20 Δ				100pØ	Δ	TO5	
52	JAN2N1081	600m		5.8m	§S		40	40	10	750m	500n	7.0Ø	500mØ	20 Δ				100pØ	Ø	TO5	
53	4C43	600m		5.8m	♦J		80	75 #	1.0	60m	2.0uØ	5.0Ø	3.0mØ	10 †Δ	200nb	50	2.0		GD	R133	A
54	PT898	600m		4.0m	§J		45	50 §	5.0		300uØ									TO5	
55	RT5804	600m		4.8m			25		7.0										ME	TO5	
56#	TF260	600m		5.0m	$J		100		20	300m	5.0u	1.0Ø	10mØ	10							
57	TZ7000	600m						30				5.0Ø	350mØ	50 †Δ				15p$		X93	A
58	TZ7001	600m						30				5.0Ø	350mØ	100 †Δ				15p$		X93	A
59	TZ7002	600m						40				5.0Ø	350mØ	50 †Δ				15p$		X93	A
60	TZ7003	600m						40				5.0Ø	350mØ	100 †Δ				15p$		X93	A
61#	XT1A	600m		5.9m	♦J		200	135	5.0	300m	50u			12 Δ					D	TO5	
62#	XT1B	600m		5.9m	♦J		300	200	5.0	300m	50u			12 Δ					D	TO5	
63#	XT1C	600m		5.9m	♦J		400	265	5.0	300m	50u			12 Δ					D	TO5	
64#	XT1D	600m		5.9m	♦J		500	350	5.0	300m	50u			12 Δ					D	TO5	
65#	2S711	600m	5.0M	833u	#A		40	40	8.0	200m	10uØ	10	200m	20			8.0		D	TO5	
66#	2S712	600m	5.0M	833u	#A		40	40	8.0	200m	10uØ	10	200m	40			4.0		D	TO5	
67#	2SC64	600m	20M§Δ	3.4m	§J		80	80 §	3.0	50m	1.5uØ	20Ø	5.0mØ	50				10pØ	ME	TO5	
68	A1379	600mØ	20M§Δ	4.0m	§J		30	25	5.0	30m	10nØ	5.0Ø	100uØ	100	1.0uØb	32 Ø	20mØ	15pØ	PLØ	TO18	
69	A1380	600mØ	20M§Δ	4.0m	§J		30	25	5.0	30m	10nØ	5.0Ø	100uØ	300	1.0uØb	32 Ø	20mØ	15pØ	PLØ	TO18	
70#	2SC66	600m	30M§Δ	3.4m	§J		130	130 §	3.0	50m	1.5uØ	20Ø	5.0mØ	70				10pØ	ME	TO5	
71	PT886	600m	30.M	4.0m	§J		25	22 §	5.0	500m	300u			80 Ø					PL	TO5	AØ
72	PT887	600m	30.M	4.0m	§J		50	45 §	5.0	500m	300u			80 Ø					PL	TO5	
73	PT888	600m	30.M	4.0m	§J		50	45 §	5.0	500m	300u			80 Ø					PL	TO5	
74	PT897	600m	30.M	4.0m	§J		45	50 §	5.0		300u			80 Ø						TO5	
75#	ZT1420	600m	30.M§				60		5.0			1.0	10m	300					ME	TO5	
76	2N2356Ø	600m	50M§Δ	3.4m	§J		25		7.0	500m	10n							20pØ	*	L6	
77#	FT004	600m	50MΔ	2.8m	$S		50	30	6.0		100u	15Ø	6.0mØ	45 Δ		2.5kØ	5.0 Ø	10pØ	PE	TO5	
78#	ST160†	600m	50M§Δ		§S		40	20	5.0		50nØ	10Ø	150mØ	30 †#Δ				25pØ	PEΔ	TO5	Ø
79#	ST161†	600m	50M§Δ		§S		40	20	5.0		50nØ	10Ø	150mØ	20 †#Δ				25pØ	PEΔ	TO5	Ø
80#	ST162†	600m	50M§Δ		§S		40	20	5.0		50nØ	10Ø	150mØ	40 †#Δ				25pØ	PEΔ	TO5	Ø
81#	ST163†	600m	50M§Δ		§S		40	20	5.0		50nØ	10Ø	150mØ	20 †#Δ				15pØ	PEΔ	TO5	Ø
82#	ST178	600m	50M§Δ		§S		75	75	5.0		50nØ	10Ø	50mØ	75 †#Δ				15pØ	PE	TO5	Ø
83	USAF511ES035P	600m	50M§Δ	13m	§J		80	70 Ø	5.2	1.0	10u	10Ø	2.0mΔ	40 †Δ#				35pØ	PL	TO39	Ø
84	USAF511ES036P†	600m	50M§Δ	13m	§J		80	70 Ø	5.2	1.0	10u	10Ø	2.0mΔ	40 †Δ#				35pØ	PL	TO39	Ø
85#	FT001	600m	60.M§	4.8m	$S		50	30	6.0	300m	100u	15Ø	6.0mØ	35	50u	650		25pØ	ME	TO5	
86#	FT002	600m	60.M§	4.8m	$S		50	30	8.0	300m	100u	15Ø	6.0mØ	70	50u	650		25pØ	ME	TO5	
87#	SDD420	600m	60.M§	4.8m	$S		50	30	6.0	300m	100u	15Ø	6.0mØ	60	50u	650		25pØ	D	TO5	
88#	ST150	600m	60M§Δ		§S		60	40 §	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PEΔ	TO5	Ø
89#	ST151	600m	60M§Δ		§S		60	25	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PE	TO5	Ø
90#	ST152	600m	60M§Δ		§S		60	25	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PE	TO5	Ø
91#	ST153	600m	60M§Δ		§S		60	15	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PE	TO5	Ø
92#	ST154	600m	60M§Δ		§S		40	30	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PE	TO5	Ø
93#	ST155	600m	60M§Δ		§S		40	25	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PE	TO5	Ø
94#	ST156	600m	60M§Δ		§S		40	20	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PE	TO5	Ø
95#	ST157	600m	60M§Δ		§S		40	15	5.0		10nØ	10Ø	150mØ	20 †#Δ				25pØ	PE	TO5	Ø
96#	2SC19	600m	70M§Δ	4.0m	§J		40	30 §	5.0	400m	1.0uØ	10Ø	150m	50 †				30p	ME	TO5	AØ
97#	2SC20	600m	70M§Δ	4.8m	§J		40	40 §	3.0	400m	1.0uØ	10Ø	10m	50				30p	ME	TO5	AØ
98#	FT004A	600m	70M§Δ	5.0m	$S		50	30	6.0	100m	100u	15Ø	6.0mØ	80 Δ	70u	1.5k		20p		TO5	
99#	SDD1220	600m	70.M§	4.8m	$S		50	30 §	6.0	75m	100u	15Ø	6.0mØ	60	120u	600		7pØ	D	TO5	
100#	SP8400	600m	80MΔ	3.4m	§J		120	80	7.0		10nØ	10Ø	150mØ	40 †Δ#	11u	2.8k	3.5	13p	PL	TO5	
101#	SP8402	600m	80MΔ	3.4m	§J		100	60	7.0		25nØ	10Ø	10mØ	35 †Δ#	10u	600		15pØ	PL	TO5	
102#	2SC109†	600m	90.M§	4.0m	§J		50	30	5.0	600m	1.0uØ	2.0Ø	150mØ	35 †Δ				12p	EM	TO5	
103#	SP8401	600m	96MΔ	3.4m	§J		100	60	7.0		25nØ	10Ø	10mØ	75 †Δ#	20u	1.0k		15pØ	PL†	TO5	
104	2N3450†	600m	100M§Δ	4.5m	§S		120	60	7.0	800m	200nØ	1.0Ø	150mØ	40 †#Δ				15pØ		TO5	Ø
105#	2SC108	600m	100M§Δ	4.0m	§J		90	45	5.0	600m	1.0uØ	2.0Ø	150mØ	20 †Δ				12p	EM	TO5	
106#	2SC199	600m	100M§	4.0m	§J		80	45	15	50m	10uØ	12Ø	3.0mØ	70 †				2.0p	ME	TO5	
107#	BFY15†	600m	100M§	4.7m	$A		40	20	6.0	500m	1.0uØ	9.0Ø	20mØ	30				25p	PLØ	TO5	Ø
108#	FT003	600m	100M§	4.8m	$S		50	30	6.0	100m	100u	15Ø	6.0mØ	35	70u	400		10pØ	ME	TO5	

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1	A777	600mØ	120M§	4.5m	§J	100	60	5.0	50m	4.0mt*							1.8pt	PL	TO39 AØ
2	A778	600mØ	120M§	4.5m	§J	185	115	5.0	50m	4.0mt*							1.8pt	PL	TO39 AØ
3	A779	600mØ	120M§	4.5m	§J	250	115	5.0	50m	4.0mt*							1.8pt	PL	TO39 AØ
4	PT3473	600m	140M§Δ	3.4m	§J	140	80	7.0	1	.01uØ	10Ø	150mØ	100 t#Δ				13pØ	PLΔ	TO5
5	2N1644A	600m	150M	4.0m	§J	60		5.0		1.0u	10	15m	75 t				20p	ME	
6#	BFY16†	600m	150M§	4.7m	§A	40	20	6.0	500m	1.0uØ	9.0Ø	20mØ	42				25p	PLØ	TO5 Ø
7	HT102	600m	150M§		§S	20		5.0		5.0uØ	10	50mØ	6.0 Δ				35pØ	MEΔ	TO5
8	HT103	600m	150M§		§S	20		3.0		5.0uØ	10	50mØ	6.0 Δ				35pØ	MEΔ	TO5
9	PMT213	600m	150M	4.0m	§J	60	40 §	5.0		1.0uØ	10Ø	150mØ	40 t				20p	MEΔ	TO51
10	PMT214	600m	150M	4.0m	§J	60	40 §	5.0		1.0uØ	10Ø	150mØ	80 t#				20p	MEΔ	TO51
11	RT482	600m	150M	5.0m	§J	20		5.0		2.0uØ	10Ø	30mØ	20 Δ				25pØ	PL	TO5
12	RT483	600m	150M	5.0m	§J	40		5.0		2.0uØ	10Ø	150mØ	40 t				25pØ	PL	TO5
13	RT484	600m	150M	5.0m	§J	40		5.0		2.0uØ	10Ø	150mØ	80 t				25pØ	PL	TO5
14	RT5151	600m	150M	5.0m	§J	45	20	4.0		1.0uØ	10Ø	150mØ	60 t	3.0ub	10 Ø	5.0 Ø	20p	MEΔ	TO5
15	RT5152	600m	150M	5.0m	§J	45	20	4.0		1.0uØ	10Ø	150mØ	60 t	3.0ub	10 Ø	5.0 Ø	20p	MEΔ	TO5
16	RT5203	600m	150M	5.0m	§J	40		5.0		2.0u								ME	TO5
17	RT5204	600m	150M	5.0m	§J	30	30 §	5.0		1.0uØ	10Ø	10mØ	70 t	200nb	26	.50	18p	MEΔ	TO5
18	RT5212	600m	150M	5.0m	§J	60	60 §	5.0		1.0uØ	10Ø	10mØ	70 t	200nb	26	.50	18p	MEΔ	TO5
19#	SDD820	600m	150M§	4.8m	§S	50	30	6.0	100m	2.0uØ	15Ø	6.0mØ	60	100u	700		12pØ	D	TO51
20	PMT215	600m	175M	5.3m	§J	80	50 §	8.0		.50uØ	10	50mØ	9.0				11p	MEΔ	TO51
21	2N2094	600m	200M§Δ			60	40	5.0		.02u		1.0mØ	25 t				8.0p	PE	TO5
22	2N2094A	600m	200M§Δ			60	60	5.0		.01u		1.0mØ	40 t				8.0p	PE	TO5
23	2N2095A	600m	200M§Δ			60	60	5.0		.01u		1.0mØ	100 t				8.0p	PE	TO5
24	2N2618	600m	200M§Δ	3.4m	§J	60	40	7.0	750m	250nØ	10Ø	10mØ	30 Δ				14pØ		TO5 AØ
25#	BF110	600m*	200M§	4.5m	§J	170	90	3.0	30m	1.5uØ	10Ø	10mØ	60 t				3.5p	ME	TO5
26#	BSW10†	600m*	200M§Δ	455u	§J	90	65	7.0	800m	.10uØ	10Ø	1.0mØ	60 t				10pØ	PE	TO5 AØ
27	NS1355	600m	200M§	3.4m	§A	70	40	5.0	1	.10u	10Ø	15mØ	30 t Δ				4.0p	PE	TO18
28	NS1960	600m	200M	3.4m	§A	80	60	8.0	100m	5nØ	5.0Ø	1.0m	80 t Δ	70u	2.5k	1.0	4.0p	PL	TO18
29	PT1835	600m	200M	4.0m	§J	30	25 §	4.0		10uØ	10Ø	150mØ	45 t Ø				35p	PLΔ	TO18
30#	ST175	600m	200M§Δ		§S	75	75	5.0		50nØ	10Ø	50mØ	20 t#Δ				15pØ	PE	TO5 Ø
31#	ST176	600m	200M§Δ		§S	75	75	5.0		50nØ	10Ø	50mØ	40 t#Δ				15pØ	PE	TO5 Ø
32#	ST177	600m	200M§Δ		§S	75	75	5.0		50nØ	10Ø	50mØ	100 t#Δ				15pØ	PE	TO5 Ø
33#	ST180	600m	200M§Δ		§S	90	75	5.0		50nØ	10Ø	50mØ	20 t#Δ				15pØ	PL	TO5 Ø
34#	ST181	600m	200M§Δ		§S	90	75	5.0		50nØ	10Ø	50mØ	40 t#Δ				15pØ	PL	TO5 Ø
35#	ST182	600m	200M§Δ		§S	90	75	5.0		50nØ	10Ø	50mØ	100 t#Δ				15pØ	PL	TO5 Ø
36#	ST185	600m	200M§Δ		§S	100	100	5.0		50nØ	10Ø	50mØ	20 t#Δ				15pØ	PL	TO5 Ø
37#	ST186	600m	200M§Δ		§S	100	100	5.0		50nØ	10Ø	50mØ	40 t#Δ				15pØ	PL	TO5 Ø
38#	ST187	600m	200M§Δ		§S	100	100	5.0		50nØ	10Ø	50mØ	100 t#Δ				15pØ	PL	TO5 Ø
39#	TK254A	600m	200M§Δ		§J	40	25	3.0	100m	.01uØ	9.0Ø	10mØ	25 Δ				5.5pØ	PL	TO5
40#	2SC559	600m	230M§		§	60	30	5.0	300n	10u	1.0Ø	100mØ	80 t				3.2p	EP	TO5
41	2N2320	600m	300M§	3.4m		30		5.0		1.0u	.40Ø	20m	40 t				5.0p		TO5
42#	2SC74	600m	300M§	4.0m	§J	30	20	5.0	100m	.50uØ	1.0Ø	10mØ	70 t				4.0p	PE	TO39 AØ
43	S15660	600m	400M§Δ	3.4m	§J	40	15	4.0	1	.5m§Ø	.50Ø	300mØ	60 t#				15pØ	DPE	R83a
44#	2SC991	600m	500M§		§J	36	36 §	4.0	400m	1.0uØ	3.0Ø	100mØ	30 t				5.0p	PE	TO39 A
45#	2SC992	600m	500M§		§J	36	36	4.0	600m	1.0uØ	3.0Ø	100mØ	30 t				5.0p	PE	TO39 A
46	S6804	600m	500M§Δ	3.4m	§J	30	15	4.0		.05uØ	5.0Ø	50mØ	20 #Δ				3.5pØ	PE	TO5 AØ
47	S15659	600m	500M§Δ	3.4m	§J	40	20	4.0		.05uØ	5.0Ø	50mØ	70 t#				4pØ	DPE	TO5 AØ
48	RH3761	600mØ	600M	3.0m	J	30	14	3.5	400m	20uΔ	5.0	50	10 t Δ						TO46
49#	RT3171	600m*	1.8G§Δ	30m	§J	40	30 §	3.0	100m		5.0Ø	75mØ	50 t				1.5p$		MT107 R
50#	BC255	625m		5.0m	§S	100	55	6.0	30m	100nØ	5.0Ø	1.0mØ	45 Δ					PLt	TO92 B
51#	2SC479Ht	650m		4.3m	§J	60	40	5.0	600m	1.0uØ	1.0Ø	100mØ	40 t Δ				20pØ	PE	TO5 AØ
52	J581	675m				30			50m		10Ø	5.0m	20					G	OV9
53	J582	675m				60			50m		10Ø	5.0m	20					G	OV9
54	J583	675m				100			50m		10Ø	5.0m	20					G	OV9
55	J584	675m				30			50m		10Ø	5.0m	40					G	OV9
56	J585	675m				60			50m		10Ø	5.0m	40					G	OV9
57	J586	675m				100			50m		10Ø	5.0m	40					G	OV9
58	J587	675m				30			50m		10Ø	5.0m	95					G	OV9
59	J588	675m				60			50m		10Ø	5.0m	95					G	OV9
60	J589	675m				100			50m		10Ø	5.0m	95					G	OV9
61	J594	675m				30			50m		10Ø	5.0m	10 Δ					G	OV9
62	J595	675m				60			50m		10Ø	5.0m	10 Δ					G	OV9
63	J596	675m				100			50m		10Ø	5.0m	10 Δ					G	OV9
64#	2SC12	700m	13.M§	5.6m	§J	60		8.0	250m		10	200m	20					ME	TO9
65	RT5411	700m	40.M	2.0m	▼J	280		10		10u	20	10m	40 t				6.0p	ME	TO5
66	RT5412	700m	40.M	4.0m	▼J	340		10		10u	20	10m	40 t				6.0p	ME	TO5
67	RT5413	700m	40.M	4.0m	▼J	400		10		10u	20	10m	40 t				6.0p	ME	TO5
68#	BSW39†	700m	50M§Δ	4.5m	§J	100	80	7.0	1.0	30nØ	2.0Ø	1.0 Ø	20 t Δ#				20p$Ø	PE	TO39 AØ
69	RT5401	700m	100M	4.0m	▼S	30	20	7.0	750	1.0u	10Ø	50mØ	230	1.8ub	2.0	5.0	19p	PLΔ	TO5
70	RT5402	700m	100M	4.0m	▼S	30	25 §	7.0	750	1.0u	10Ø	10mØ	300	1.8ub	2.0	5.0	19p	PLΔ	TO5
71	RT5403	700m	100M	4.0m	▼S	60	35 §	7.0	750m	1.0uØ	10Ø	10mØ	220	1.8ub	2.0	5.0	19p	PLΔ	TO5
72	RT5404	700m	100M	4.0m	▼S	60	30 §	7.0	750m	1.0uØ	10Ø	50mØ	210	1.8ub	2.0	5.0	19p	PLΔ	TO5
73#	BFY13	700m*	180M§Δ	4.5m	§J	80	60	5.0	350m	.02uØ	10Ø	100mØ	105 t				4.0p	PE	TO5
74#	BFY14	700m*	180M§Δ	4.5m	§J	100	80	5.0	250m	.02uØ	10Ø	100mØ	105 t				4.0p	PE	TO5
75	TIS113†	700m	200M§Δ	5.6m	§S	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	60 t Δ#				12pØ	PEt	X55 A
76	TIS114†	700m	200M§Δ	5.6m	§S	50	30	6.0	500m	1.7uØ	1.0Ø	100mØ	50 t Δ#				12pØ	PEt	X55 A
77	TIS115†	700m	200M§Δ	5.6m	§S	80	50	6.0	500m	1.7uØ	1.0Ø	100mØ	60 t Δ#				10pØ	PEt	X55 A
78	TIS116†	700m	200M§Δ	5.6m	§S	80	40	6.0	500m	1.7uØ	1.0Ø	100mØ	50 t Δ#				10pØ	PEt	X55 A
79#	AT440	700m	250M§Δ	4.0m	§J	50	30	5.0	500m	200nØ	10Ø	150mØ	30 t Δ				8.0pØ	PE	TO39 AØ
80#	AT441	700m	250MΔ§	4.0m	§J	50	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO39 AØ
81#	AT442	700m	250MΔ§	4.0m	§J	50	30	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	TO39 AØ
82#	AT443	700m	250MΔ§	4.0m	§J	50	45	5.0	500m	200n	10Ø	150mØ	100 Δ				8.0pØ	PE	TO39 AØ
83#	AT444	700m	250MΔ§	4.0m	§J	50	30	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO39 AØ
84#	AT445	700m	250MΔ§	4.0m	§J	50	45	5.0	500m	200n	10Ø	150mØ	30 Δ				8.0pØ	PE	TO39 AØ
85#	AT447	700m	250M§Δ	4.0m	§J	50	30	5.0	500m	200n	1.0Ø	50m	100 t#Δ				8.0pØ	PE	TO39 AØ
86#	AT448	700m	250M§Δ	4.0m	§J	50	45	5.0	500m	200n	1.0Ø	50m	100 t#Δ				8.0pØ	PE	TO39 AØ
87	S17900†	700m	250M§Δ	4.0m	§J	60	50	5.0	600m	1.3uØ	1.0Ø	100mØ	90 t#				10pØ	PE	TO5 AØ
88#	AT446	700m	300M	4.0m	§J	50	50	5.0	500m	200n	10Ø	150mØ	30 t#Δ				8.0pØ	PE	TO39 A
89	35821EOpt200	700mØ	4.0G§	14mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 Ø				350f$	Ø	X72b V
90	35823B	700mØ	4.0G§	10mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 Ø				850f		TO51 E
91	35823E	700mØ	4.0G§	10mØ	§J	30	20	1.5	35m	10uØ	15Ø	150uΔ	125 Ø				450f$		TO51 F
92	2N1923	750m		6.0m	§J	85	85	1.0	60m	1.0uØ	10Ø	5.0m	28 Δ	2.0uØb	30 Ø	3.0 Ø	15pØ		TO11 A
93	2N347	750m	3.0M		§J	60		1.0	60m	5.0u	5.0		49					G	
94	2N348	750m	3.0M		§J	90		1.0	50m	6.0u	5.0		24					G	
95	2N349	750m	3.0M		§J	125		1.0	40m	8.0u	5.0		19					G	
96#	AT350	750m	40MΔ§	5.0m	§J	200	200	6.0	100m	200nØ	10Ø	20mØ	30 t Δ				3.5pØ	PL	TO39 AØ
97#	AT351	750m	40MΔ§	5.0m	§J	150	150	6.0	100m	200n	10Ø	20mØ	30 Δ				3.5pØ	PL	TO39 AØ
98#	2SC116T	750m	60M§Δ			75	50	5.0	200m	5.0m	2.0Ø	200mØ	8.0 t Δ						TO39
99#	2SC116	750m	70M§	5.0m	§J	50		5.0	200m	1.0uØ	6.0Ø	10m	3.5		70		20p	EM	TO5 Ø
100#	2SC114†	750m	80.M	5.9m	§J						2.0	200m	73 t				18p		TO5
101#	2SC151	750m	130M			40		5.0	100m	1.0u	6.0	10m	50				7.0p	ME	TO5
102#	2SC150T	750m	150M§			50	25	5.0	100m		6.0Ø	10mØ	7.0				7.0p	EM	TO5
103#	2SC152	750m	160M			60		5.0	100m	1.0u	6.0	10m	50				7.0p	ME	TO5
104#	2SC353	750m	170M§		§J	100	60	5.0	100m	.20uØ	3.0Ø	1.0mØ	90 t				3.0p	PE	TO5
105#	2SC470	750m	170M§		§J	150	130	5.0	100m	1.0uØ	5.0Ø	3.0mØ	60 t				2.0p	PE	TO5
106#	2SC112†	750m	180M	8.3m	§J						2.0Ø	200m	35 Δt				7.0p		TO5
107#	2SC113†	750m	180M	8.3m	§J						2.0Ø	200m	35 Δt				7.0p		TO5
108#	2SC32A	750m	200M§		§J	60	25	5.0	200m	.10u	10Ø	10m	60				4.0p	PE	TO5
109#	2SC154	750m	220Mt	5.0m	§J	120	70	5.0	100m		10Ø	10m	11				60pØ	DΔ	TO5
110#	2SC110	750m	240M			40		5.0	300m	10u	2.0	200m	50				6.0p		TO5

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab	DERATE IN FREE AIR W/°C	T E M A X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E A D O D E
1#	2SC111	750m	240M			50		5.0	300m	10u	2.0	200m	50				6.0p		TO5	
2#	2SC38	750m	250M§		§J	40	25	3.0	200m	.10uØ	10Ø	10m	50				4.0p	PE	TO5	
3#	2SC153	750m	350M			120		40	100m	1.0u	10	10m						ME	TO5	
4	QD150-78	750m	550M			30	30	6.5	20m	200p				15			3.0p			
5	AT220	750mØ	4.0G§	4.2 Ø	§J	20	15	3.0	200m	20nØ	10Ø	15mØ	20 †△				500f§	PE	u77e	GA
6	2N1105	800m		4.6m	§S	60	60	8.0	500m	10uØ♦	10Ø	200mØ	12 †△						TO43	AØ
7	2N1106	800m		4.6m	§S	100	100	8.0	500m	10uØ♦	10Ø	200mØ	12 †△						TO43	AØ
8	2N2886	800m		4.5m	§J	50	40	5.0	500m	.10uØ	1.5Ø	5.0mØ	22 †△					†	TO5	
9	11B1260	800m		4.5m	§J	100	60	7.0			10Ø	150mØ	80 †△	1.0uØb	8.0 Ø	4.0 Ø	15pØ	PL†	TO5	
10#	111T2†	800m		5.6m	§J		90 Ø	4.0		1.0uØ	10Ø	10mØ	30 †△					PE	R100	A
11	CDQ10049	800m		4.5m	§		110 §	5.0			1.0Ø	6.0mØ	60 †#					PL	TO5	
12#	CP703	800m	30M△§	4.5m	§J	60	40	5.0		10uØ	5.0Ø	1 Ø	80 †#				40p	PE	TO39	AØ
13	2N1252A†	800m	40M§△	4.5m	§J	60	30	5.0	1.0	1.0uØ	10Ø	150mØ	15 †△				45p		TO5	AØ
14#	BC226	800m	40M§	4.5m	§	40	30	5.0		100n	10Ø	10mØ	150 †				12p	PL	TO39	A
15#	BF140	800m	40M§△	4.5m	§S	135	135 §	3.0		1.0uØ	10Ø	10mØ	15 †△				3pØ	PL	TO5	AØ
16#	BF140A	800m	40.M△				150 §		30m									PL	TO5	
17	MST10S	800m	40M	5.3m	§J	100	100 §	5.0	200m	2.0u	10Ø	15mØ	30				8.0p	DM	TO5	
18	MST20S	800m	40M	5.3m	§J	200	200 §	5.0	200m	2.0u	10Ø	15mØ	30				8.0p	DM	TO5	
19	MST30S	800m	40M	5.3m	§J	300	300 §	5.0	200m	2.0u	10Ø	15mØ	30				8.0p	DM	TO5	
20	MST40S	800m	40M	5.3m	§J	400	400 §	5.0	100m	2.0u	10Ø	15mØ	30				8.0p	DM	TO5	
21	MST50S	800m	40M	5.3m	§J	500	500 §	5.0	100m	4.0u	10Ø	10mØ	30				8.0p	DM	TO5	
22	MST60S	800m	40M	5.3m	§J	600	600 §	5.0	100m	4.0u	10Ø	10mØ	30				8.0p	DM	TO5	
23	MST70S	800m	40M	5.3m	§J	700	700 §	5.0	100m	4.0u	10Ø	10mØ	30				8.0p	DM	TO5	
24#	AT360	800m	45M△§	4.5m	§J	80	60	8.0	3.0	1.0u	2.0Ø	1.0 Ø	30 △				120pØ	PL	TO39	AØ
25#	AT361	800m	45M△§	4.5m	§J	100	80	8.0	3.0	1.0u	2.0Ø	1.0 Ø	30 △				120pØ	PL	TO39	AØ
26#	AT362	800m	45M△§	4.5m	§J	120	100	8.0	3.0	1.0u	2.0Ø	1.0 Ø	30 △				120pØ	PL	TO18	AØ
27#	AT363	800m	45M△§	4.5m	§J	80	60	8.0	3.0	1.0u	2.0Ø	1.0 Ø	100 △				120pØ	PL	TO18	AØ
28#	AT364	800m	45M△§	4.5m	§J	100	80	8.0	3.0	1.0u	2.0Ø	1.0 Ø	100 △				120pØ	PL	TO18	AØ
29#	AT365	800m	45M△§	4.5m	§J	120	100	8.0	3.0	1.0u	2.0Ø	1.0 Ø	100 △				120pØ	PL	TO18	AØ
30#	AT366	800m	45M§△	4.5m	§J	80	60	8.0	3.0	1.0u	2.0Ø	1.0 Ø	30 △				120pØ	PL	TO18	AØ
31#	AT367	800m	45M△§	4.5m	§J	100	80	8.0	3.0	1.0u	2.0Ø	1.0 Ø	30 △				120pØ	PL	TO18	AØ
32#	AT368	800m	45M△§	4.5m	§J	120	100	8.0	3.0	1.0u	2.0Ø	1.0 Ø	30 △				120pØ	PL	TO18	AØ
33#	CP403	800m	45M§	4.5m	§J	40	40	5.0		5.0uØ	5.0Ø	2 Ø	75 †#				40p	DPE	TO5	AØ
34	2N1253A†	800m	50M§△	4.5m	§J	60	30	5.0	1.0	1.0uØ	10Ø	150mØ	30 †△				45p		TO5	AØ
35#	2SC1381	800m	50M§		§J	100	100	5.0	1.0	1.0uØ	2.0Ø	150mØ	120 †				35pØ	PE	u119	B
36	11B1258	800m	50M§△	4.5m	§J	120	80	7.0		10nØ	10Ø	150mØ	40 †△	500nØb	30 Ø	1.3 Ø	15pØ	PL†	TO5	
37	11C1536	800m	50M§△	4.5m	§J	50	30	6.0	1	.05uØ	10Ø	150mØ	80 †#				20pØ	PE	TO5	
38	PT2525	800m	50M§△	4.5m	§J	220	170	5.0	500m	.01uØ	50Ø	10mØ	20 †#△				6pØ	PL	MT39	
39	PT2575	800m	50M§△	4.5m	§J	220	170	5.0	500m	.01uØ	50Ø	10mØ	20 †#△				6pØ	PL		
40#	BF157B	800m	54M§	4.5m	§	175	175	5.0		100u	10Ø	30mØ	60 †				6.0p	PL	TO39	A
41#	2SC510O†	800m	60M§	5.3m	§J	140	100	5.0	1.5	1.0uØ	2.0Ø	200mØ	50 †△				25p	DPL	TO39	AØ
42#	2SC510R†	800m	60M§	5.3m	§J	140	100	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39	AØ
43#	2SC511O†	800m	60M§	5.3m	§J	120	80	5.0	1.5	1.0uØ	2.0Ø	200mØ	50 †△				25p	DPL	TO39	AØ
44#	2SC511R†	800m	60M§	5.3m	§J	120	80	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39	AØ
45#	2SC513O†	800m	60M§	5.3m	§J	70	40	5.0	1.5	1.0uØ	2.0Ø	200mØ	50 †△				25p	DPL	TO39	AØ
46#	2SC513R†	800m	60M§	5.3m	§J	70	40	5.0	1.5	1.0uØ	2.0Ø	200mØ	30 †△				25p	DPL	TO39	AØ
47	11B1257	800m	60M§△	4.5m	§J	75	50 §	7.0		.01uØ	10Ø	150mØ	40 †△				15pØ	PL†	TO5	
48#	AT470	800m	60M△§	4.5m	§J	60	40	6.0	1.0	200n	1.0Ø	60mØ	40 †△				25pØ	PE	TO39	AØ
49#	AT471	800m	60M△§	4.5m	§J	80	60	6.0	1.0	200n	1.0Ø	60mØ	40 △				25pØ	PE	TO39	AØ
50#	AT472	800m	60M△§	4.5m	§J	100	80	6.0	1.0	200n	1.0Ø	60mØ	40 △				25pØ	PE	TO39	AØ
51#	AT473	800m	60M△§	4.5m	§J	60	40	6.0	1.0	200n	1.0Ø	60mØ	100 △				25pØ	PE	TO39	AØ
52#	AT474	800m	60M△§	4.5m	§J	80	60	6.0	1.0	200n	1.0Ø	60mØ	100 △				25pØ	PE	TO39	AØ
53#	AT475	800m	60M△§	4.5m	§J	100	80	6.0	1.0	200n	1.0Ø	60mØ	100 △				25pØ	PE	TO39	AØ
54#	AT476	800m	60M△§	4.5m	§J	60	40	6.0	1.0	200n	1.0Ø	60mØ	40 △				25pØ	PE	TO39	AØ
55#	AT477	800m	60M△§	4.5m	§J	80	60	6.0	1.0	200n	1.0Ø	60mØ	40 △				25pØ	PE	TO39	AØ
56#	AT478	800m	60M△§	4.5m	§J	100	80	6.0	1.0	200n	1.0Ø	60mØ	40 △				25pØ	PE	TO39	AØ
57	CDQ10046	800m	60M	4.5m	§	75	50	7.0		10nØ	5.0Ø	1.0 Ø	120	130nb	26	750m	25pØ	PL	TO5	
58	CDQ10047	800m	60M	4.5m	§	120	80	7.0		10nØ	5.0Ø	1.0 Ø	120	130nb	26	750m	15pØ	PL	TO5	
59#	2SC70	800m	70M§△	6.7m	§J	180			20m	1.0uØ	30Ø	2.0m	45				1.8p	ME	TO39	AØ
60#	2SC443	800m	70M§△	4.5m	§J	50	40 §	3.0	500m	50uØ	28Ø	100mØ	20 †#				10p	PL	TO5	
61#	C420	800m	70M§	4.5m	§A	60	28	7.0		20nØ	5.0Ø	1.0mØ	55	12u	2.2k	3.6	18p	DPL	TO5	Ø
62	PT4800	800m	70.M	4.5m	§J	55	25	4.0	500m	100u	10Ø	150mØ	30 †#△				20pØ	E	TO5	
63#	BSW66A†	800m	80M§	4.5m	§J	100	100	6.0	1.0	100u	5.0Ø	1.0 Ø	15 †△				35p$Ø	PE	TO5	AØ
64#	BSW67A†	800m	80M§	4.5m	§J	120	120	6.0	1.0	100u	5.0Ø	1.0 Ø	15 †△				35p$Ø	PE	TO5	AØ
65#	BSW68A†	800m	80M§	4.5m	§J	150	150	6.0	1.0	100u	5.0Ø	1.0 Ø	15 †△				35p$Ø	PE	TO5	AØ
66	FT34C†	800m	80M§△	4.5m	§J	150	80	6.0		10u§Ø	2.0Ø	2 Ø	85 †#				80pØ	DPE	TO5	AØ
67	FT34D†	800m	80M§△	4.5m	§J	120	60	6.0		10u§Ø	2.0Ø	2 Ø	210 †#				80pØ	DPE	TO5	AØ
68	RT1210	800m	80M	4.5m	§J	200	200	8.0		250n	10Ø	30mØ	60 †				8.0pØ	PL	TO5	Ø
69	TIS102	800m	80M§	5.3m	§S	180	180	5.0	100m	50nØ	10Ø	1.0mØ	40 †				2.7p	PE	TO39	AØ
70	TIS103	800m	80M§	5.3m	§S	150	150	5.0	100m	50nØ	10Ø	1.0mØ	45 †				2.7p	PE	TO39	AØ
71	SE7010	800m	86.M§	4.5m	§J	150	150	6.0		.01uØ	10Ø	25mØ	20 △		50 Ø		2.6p	DPL	TO5	
72#	C764	800m	88M§	8.0m	§J	120	120	5.0		100u	10Ø	25mØ	70 †				6.0p	PL	TO39	A
73#	2SC108A	800m	90M§	187	§J	90	55	5.0	800m	1.0uØ	2.0Ø	200mØ	80 †				20p	PE	TO39	A
74#	2SC109A	800m	90M§	156	§J	50	40	5.0	800m	1.0uØ	2.0Ø	200mØ	80 †				20p	PE	TO39	A
75#	2SC308†	800m	90M§	4.5m	§J	100	60	5.0	500m	1.0uØ	10Ø	150mØ	65 †#				10p	PL△	TO5	AØ
76	RT1890M	800m	96.M△	4.5m	§J	100	60	7.0		.01uØ	10Ø	150mØ	130 †#	16.u	3.5k	4.6	15pØ	PL△	TO46	
77#	2SC95	800m	100M§△	6.7m	§J	140	100	5.0	100m	1.0u	10Ø	10m	50				20pØ	ME	TO5	
78#	2SC818	800m	100M§	6.7m	§J	160	120	5.0	100m	1.0uØ	10Ø	10mØ	20 †#△				4.5p	PL	TO5	AØ
79#	AT479	800m	100M	4.4m	§J	80	70	6.0	1.0	200n	1.0Ø	50mØ	40 †△#				15pØ	PE	TO39	A
80	RT1115†	800m	100M		§J	120	80 §	7.0		20nØ	1.0Ø	150mØ	40 †△				15 Ø	PE	TO5	Ø
81	RT1116†	800m	100M		§J	120	40 §	7.0		20nØ	1.0Ø	150mØ	30 †△				15 Ø	PE	TO5	Ø
82	ST6573	800m	100M§	4.5m	§J	60	30	5.0		50nØ	10Ø	150mØ	20 †△				10pØ		TO5	
83	ST6574	800m	100M§	4.5m	§J	60	30	5.0		50nØ	10Ø	150mØ	100 †△				10pØ		TO5	
84	TN237†	800m	100M§△	4.5m	§J	35	30	5.0	800m	1.0uØ	5.0Ø	1.0mØ	30 △	500nØb	35 Ø		8.0pØ	PE	TO5	A
85#	BF119	800m	110M§	5.2m	§J	160	160 §	5.0	100m	50nØ	10Ø	30mØ	25 †△				3.5p	PE	TO39	AØ
86#	2SC817	800m	120M§		§J	160	120	5.0	500m	1.0uØ	6.0Ø	10mØ	80 †#				10pØ	PE	TO5	
87#	BF118	800m	120M§	5.0m	§J	250	240	5.0	100m	50nØ	10Ø	30mØ	25 †△				2.0p$	PL	TO5	A
88	CDQ10048	800m	120M	4.5m	§	100		5.0			10Ø	50mØ	60 †#				20pØ	PL	TO5	
89	D11C1536	800m	130M§	4.5m	§A		30 §	6.0		26u	10Ø	150mØ	40 †△					PE	TO5	
90	PMT211	800m	130M§	6.7m	§J	30	25 §	4.0	500m	10uØ	10Ø	150mØ	15 †△				20p	ME△	T051	
91	PMT212	800m	130M§	1.7m	§J	45	30 §	4.0	500m	10uØ	15	100mØ	6.5				20p	ME△	T051	
92	2N1837B†	800m	140M§	4.5m	§J	80	30	8.0	500m	10nØ	10Ø	150mØ	40 †*△				18pØ		TO5	Ø
93#	2SC444	800m	140M§△	4.5m	§J	60	40 §	4.0	500m	10uØ	28Ø	100mØ	25 †#				10p	PL	TO5	
94#	2SC445	800m	140M§△	4.5m	§J	80	80 §	5.0	500m	50nØ	28Ø	100mØ	30 †#				10p	PL	TO5	
95#	2SC15-1	800m	150M		♦A	60		5.0	50m	1.0u	20Ø	10mØ	60 †	35ub			3.0p	ME		
96#	2SC15-2	800m	150M		♦A	60		5.0	50m	1.0u	20Ø	10mØ	60 †	35ub			3.0p	ME		
97#	2SC15-3	800m	150M		♦A	60		5.0	50m	1.0u	20Ø	10mØ	60 †	35ub			3.0p	ME		
98	MM1803	800m	150M§△	6.7m	§J	50	25	5.0	150m	1.0u	2.0Ø	400mØ	5.0 †△				40pØ	EA	TO5	A
99	ST6601	800m	150M§△	4.5m	§J	50	30	5.0		50nØ	10Ø	150mØ	40 †△				11pØ	PE	TO5	AØ
100#	2SC149	800m	160M§	5.3m	§J	120	80 §	6.0	300m	10uØ	10Ø	150mØ	50 #				14p	ME	TO39	
101#	2SC303	800m	180M§	4.5m	§J	50	40 §	3.0	500m	50uØ	28Ø	100mØ	20 †				10p	PL	TO5	
102#	SFT186	800m	180M§	5.3m	§S	140	140	3.0		2.0uØ	10Ø	30mØ	40 †				3pØ	ME	TO5	AØ
103	2N5211	800m	200M§△	4.5m	§C	80	80	4.0	600m	10u♦Ø	5.0Ø	200mØ	10 †△				12pØ		TO39	AØ
104#	2SC304	800m	200M§	4.5m	§J	60	40 §	4.0	500m	10uØ	28Ø	100mØ	25 †				10p	PL	TO5	
105#	2SC305	800m	200M§	4.5m	§J	80	80 §	5.0	500m	50nØ	28Ø	100mØ	30 †				10p	PL	TO5	
106	NS1356	800m	200M§	11m	§J	70	40	5.0		.10u	10Ø	15mØ	30 †△				7pØ	PE	TO5	
107	NS2101†	800m	200M§		§J	80	60	5.0		100nØ	10Ø	500mØ	80 †#				10pØ	E	TO5	Ø
108#	SFT445	800m	200M§	5.2m	§S	80	80 §	5.0		1.0uØ	10Ø	20mØ	40 †				8.0pØ	PL	TO5	Ø
109	JAN2N1506A	800m	210M§△	4.5m	§S	80	80 §	5.0		50nØ	28Ø	100mØ	20 †△#				12pØ		TO5	AØ
110	SE8041	800m	230M§	4.5m	§J	30	30	6.0	1.0	50nØ	1.0Ø	150mØ	70 †#				9.0p$	DPL	TO39	A

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) fab & (3) TYPE No.

LINE No.	3 TYPE No.	1 MAX. COLL. DISS. @25°C (W)	2 fab (Hz)	DERATE IN FREE AIR W/°C	T M E A M X P	ABS MAX RATINGS @25°C BVcbo (V)	BVceo (V)	BVebo (V)	Ic (A)	MAX. Icbo @MAX Vcb (A)	TYPICAL 'h' PARAMETERS BIAS Vcb (V)	BIAS Ie (A)	hfe	COMMON EMITTER hoe (mhos)	hie (Ω)	hre X.0001	Cob (F)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C E O A D E
1	2N3981†	800m	250M§△	4.5m	§J	60	30	5.0	1.0	300n	1.0Ø	150mØ	30 †△				8.0pⱠ		TO5	Ø
2	2N3982†	800m	250M§△	4.5m	§J	50	20	5.0	1.0	300n	1.0Ø	150mØ	40 †△				8.0pⱠ		TO5	Ø
3#	2SC97†	800m	250M§	5.3m	§J	60	30	5.0	1	1.0uØ	10Ø	150mØ	60 †#				20pⱠ	PE	TO5	
4#	2SC502	800m	250M§	6.7m	§J	60	60 §	5.0	1	10uØ	5.0Ø	200mØ	30				13p	PE	TO39	
5#	2SC580	800m	250M§	625u	§J	60	30	5.0	1.0	1.0uØ	10Ø	50m	80				10p	PE	TO5	
6	PT4830	800m	250M§	5.3m	§J	60	30	4.0		.05uØ	10Ø	10mØ	40 †△					PE	TO18	
7	TA2626†	800m	250M§△	4.5m	§J	75	50	5.0		10u§	1.0Ø	100mØ	30 †△				12pⱠ	DPE	TO5	Ø
8	TA2750	800m	250M§△	4.5m	§J	60	40	5.0		100u†§	1.0Ø	100mØ	30 †△				12pⱠ	DPE	TO5	Ø
9#	C651	800m	300M§	4.5m	§	55	35	6.0		5.0u	1.0Ø	100mØ	70 †				7.0p	PE	TO39	A
10	D11E404†	800m	300M§△	4.5m	§J	80	60	5.0	1 #	.50u§Ø	1.0Ø	100mØ	40 †△#				10pⱠ	PE	TO5	A
11	D11E405†	800m	300M§△	4.7m	§J	80	60		1.0 #	10n§	Ø	Ø	†#				Ⱡ		TO5	A
12	D11E406†	800m	300M§△	4.5m	§J	100	80	5.0	1 #	.50u§Ø	1.0Ø	100mØ	40 †△#				9pⱠ	PE	TO5	A
13	D11E407†	800m	300M§△	4.7m	§J	110	80		1.0 #	10n§	Ø	Ø	†#				Ⱡ		TO5	A
14#	MT181	800m	300M§	4.5m	§J	60		5.0	200m	1.0u	10Ø	1.0mØ	60				4.0p	PE	R81h	A
15#	2N2217A	800m	400M§	5.6m	§J	75	40	6.0		.01uØ	10Ø	150mØ	40 †#				4.0p		TO5	A
16	2N3123	800m	400M§△	5.2m	§J	60	30	5.0	800m	10nØ	10Ø	150mØ	100 †#△		60 Ⱡ		8.0pⱠ		TO5	Ø
17#	BFX14	800m	530M§	4.5m	§J	25	15	4.0	300m	.50uØ	10Ø	100mØ	50 †#				8.0p	PE	TO5	
18	MM1945	800m	600M§		§J	40		3.0		.50u							5pⱠ	E	TO18	
19	A230	800m	1.0G§	4.0m	§J	40	30	3.5	200m		5.0Ø	50mØ	25 †△				3.0p§Ⱡ	PE	TO39	A
20	PT2540	850m	150M§△	4.8m	§J	60	40	4.0	800m	10uØ	10Ø	150m	15 †△				30pⱠ	PE	TO5	
21#	BC216A	860m	70M§	2.0m	§J	45	45	6.0	20m	15n	5.0Ø	10uØ	40 †△	17m	3.0k			DPL	TO18	
22#	BC216B	860m	70M§	2.0m	§J	45	45	6.0	20m	15n	5.0Ø	10uØ	40 †△	30m			3.2p	DPL	TO18	
23	PT2523	870m	50.M§	33mØ	§J	180	140 §	5.0	500m	.01uØ	50Ø	10mØ	20 †△				6pⱠ		TO5	
24	PT2524	870m	50.M§	33mØ	§J	200	180 §	5.0	500m	.01uØ	50Ø	10mØ	20 †#△				6pⱠ		TO5	
25	2N841/KVT	880mØ	40M§	5.0m		45	45 §	2.0	50m	1.0u	5.0Ø	1.0mØ	140	350nb	40	2.0	8.0p	ME†	X30	
26	2N709/KVT	880mØ	800M§	5.0m		15	6.0	4.0		.05uØ	.50Ø	10mØ	55 †				3pⱠ	PL	X30	
27	2N2784/KVT	880mØ	1.0G§	5.0m		15	6.0	4.0	500m	5nØ	.50Ø	10mØ	120 †Ⱡ				3pⱠ	PE	X30	
28	2N3633/KVT	880mØ	1.3G§	5.0m		15	6.0	4.0	50m	5nØ	.50Ø	10mØ	150 †Ⱡ				2.5pⱠ	PE	X30	
29	D28B	950m		100u	§J	150	150 §		100m	.10u	10Ø	2.0mØ	250	10u	4.0k	1.0	5.0p		X51	
30	CDQ10011	1.0 Ø		7.6m	§J	55	55	1.0	60m	1.0uØ	10	5.0m	50	2.0uⱠb	30 Ⱡ	3.0 Ⱡ	30p	PL	TO5	Ø
31	CDQ10012	1.0 Ø		7.6m	§J	85	85	1.0	60m	1.0uØ	10	5.0m	50	2.0uⱠb	30 Ⱡ	3.0 Ⱡ		PL	TO5	Ø
32	CDQ10014	1.0 Ø		7.6m	§J	60	60	1.0	60m	1.0uØ	10	5.0m	20	2.0uⱠb	30 Ⱡ	3.0 Ⱡ		PL	TO5	Ø
33	CDQ10033	1.0 Ø			§S	85		3.0		1.0uØ	10	1.0m	53	2.0ub	25	3.0	20p	PL	TO5	Ø
34	CDQ10034	1.0 Ø			§S	125		3.0		1.0uØ	10	1.0m	53	200nb	25	3.0	20p	PL	TO5	Ø
35	CDQ10037	1.0 Ø		7.6m	§J	85		1.0	60m	1.0u	10	5.0m	20	2.0ub	25	3.0	20p	PL	TO5	Ø
36	ST4341	1.0			§J	80		5.0	150m	100u	5.0	3.0m	15 △				50p		TO5	
37	CDQ10044	1.0 Ø	6.0M	7.6m	§J	85		2.0	60m	50u	10	5.0m	20	2.0ub	25	300m	20p	PL	TO5	Ø
38	CDQ10045	1.0 Ø	6.0M	7.6m	§J	65		2.0	60m	50u	10	5.0m	59	2.0ub	25	300m	20p	PL	TO5	Ø
39	2N706/KVT	1 Ø	320M△	6.7m		25	20 §	3.0		.05uØ	1.0Ø	10mØ	20 †#△				6pⱠ	D	X30	
40	2N930/KVT	1.2 Ø	30M§△	6.6m		45	45	5.0	30m	10n	5.0Ø	1.0mØ	150 △	1.0uⱠb	32 Ⱡ	6.0 Ⱡ	8.0pⱠ	PLØ	X30	
41	2N708/KVT	1.2 Ø	480M△	6.7m		40	15	5.0		.02uØ	1.0Ø	10mØ	30 †#△				6pⱠ	PL	X30	
42	2N2369/KVT	1.2 Ø	800M△	6.7m		40	15	4.5	500m	.40uØ	1.0Ø	10m	80 †				4pⱠ	PE	X30	
43	2N717A†	1.8 Ø	200M§			75		7.0										PL	TO18	
44	PT850	2.0 Ø	120M§	4.0m	§J	120	80	5.0	500m	2.0uØ	10Ø	150mØ	40 †△#				20p	PL	TO5	AØ
45	PT850A	2.8 Ø	120M§	5.2m	§J	120	80	5.0	500m	2.0uØ	10Ø	150mØ	40 †△#				20p	PL	TO5	AØ
46	2N1893/KVT	3 Ø	80.M△	17m		120	80	7.0		.01uØ	10Ø	150mØ	80 #†	11u	2.8k	3.5	15pⱠ	PL△	X30	
47	2N1613/KVT	3 Ø	130M	17m		75	50 §	7.0		.01uØ	10Ø	150mØ	80 †#	12.u	2.2k	3.6	25pⱠ	PL†△	X30	
48	2N1711/KVT	3 Ø	160M	17m		75	50 §	7.0		.01uØ	10Ø	150mØ	130 †	23.u	4.4k	7.3	25pⱠ	PLØ△	X30	
49#	BFS10	5.0 Ø	500M§△			55	30	3.5			5.0Ø	50mØ	120 †#				3.0pⱠ			
50#	BFW69	7.0 Ø	400M§△	40m	§J	65	40	4.0		1.0mØ	5.0Ø	250mØ	10 †△#				10p	PE	TO39	AØ
51	MT914	250	300M§	1.6m	§J	40		5.0		25n	1.0Ø	10mØ	70 †				6.0p	PL	u13	

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	DERATE r(DS) on (Ω)	MAX. Cis (F)	IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1	MEM519				30	40				3.0p			130uΔ				300fΔ			*		
2#	ML111B		6.5†	*	40	40										1.6k	3.0pt	4.0m	125S	Δ*	R115b	
3#	ML131B		2.4†	2.4*	20	20	20m				1.0Ø	3.2	1.6mΔ			330 †	3.0p	2.0m	125S	*	L75b	
4#	ML132A		2.4†	2.4*	20	20	20m				1.0Ø	3.2	1.6mΔ			330 †	3.0p	4.0m	125S	§*	L53a	
5#	ML132B		2.4†	2.4*	20	20	20m				1.0Ø	3.2	1.6mΔ			330 †	3.0p	4.0m	125S	§*	L53b	
6#	MT131B		2.4†	2.4*	20	20	20m				1.0Ø	3.2	1.6mΔ			330 †	3.0p	2.0m	125S	*	L75b	
7#	MT132A		2.4†	2.4*	20	20	20m				1.0Ø	3.2	1.6mΔ			330 †	3.0p	4.0m	125S	§*	L53a	
8#	MT132B		2.4†	2.4*	20	20	20m				1.0Ø	3.2	1.6mΔ			330 †	3.0p	4.0m	125S	§*	L53b	
9	UC41	10m†	2.5	20		30Δ			300uΔ	10p	0.0	20	100u				2.5p	2.0m	200J	E	TO72	DG
10	UC43	10m	2.5	20		30			300u	10p										PE	u23	DB
11	2N3697	18m†	1.8	20		30	.60m	50m	.60mΔ	.10n	0.0	20	.50m	1.0m	6.0u%		5.0p#	2.0m	200S	Ø	TO72	DG
12	UC40	30m†	5.0	20		30Δ			1.0mΔ	10p	0.0	20	150u				2.5p	2.0m	200J	E	TO72	DG
13	UC42	30m	5.0	20		30			1.0m	10p										PE	u23	DB
14	2N3113	50m	4.0	5.0		20	10m	10m	180uΔ	50p	0.0	5.0	50u		120u		2.0p#		200S		TO18	DAØ
15	2N3610	100m	7.0Δ	*	20	20			600u	20p						2.5k%		15m	150S	Ø	TO72	DP
16	2SJ11	100m	5.0	10		20		10m	900u	1.0n	0.0	10	100uΔ	600uΔ			2.0p*		150	PE	TO17	
17	2SJ12	100m	5.0	10		20		10m	.90m	.10n	0.0	10	.10mΔ	.6mΔ			2.0p*		150	PE	TO17	
18#	3SJ11†	100m	6.5Δ	*	30	30	10m		100n		10	10	300u			1.0k†	5.0p#*	1.0m	150S	PL*	TO72	DU
19	MEM300	100m	5.5Δ	10*	75	75	20m	100u	500p							750	3.5p#	660u	200S	*Ø	TO72	DM
20	MEM301	100m	6.0Δ	10*	60	60	20m	100u	1.0n							1.0k	4.5p#	660u	200S	*Ø	TO72	DM
21	MEM302	100m	6.0Δ	10*	40	40	20m	100u	1.0n							1.2k	5.0p#	660u	200S	*Ø	TO72	DM
22	TIXM12	100m	3.5†	8.0Δ	20	20		10	25m	10u	5.0Ø	8.0	5.0m	20m	50n		9.0p#	1.3m	125S	Ge	R110b	DB
23	2N3695	112mt	4.5	20		30	3.7m	50m	3.7mΔ	100u	0.0	20	1.0m	1.7m	35u%		5.0p#	2.0m	200S	Ø	TO72	DG
24	SD5010*	112m	5.5†	*	30	25	25m	100u	5.0 Ø*	1.0n	10	10	500u			250 Δ	1.1pt*	1.1m	125J	*Ø	L53	
25	SD5011*	112m	5.5†	*	30	40	25m	100u	5.0 Ø*	3.0p	10	10	500u			250 Δ	1.1pt*	1.1m	125J	*Ø	L54	
26	SD5012*	112m	4.5†	*	65	50	25m	100u	5.0 Ø*	1.0n	10	10	1.2m			400 Δ	1.1pt*	1.1m	125J	*Ø	L53	
27	SD5013*	112m	4.5†	*	65	65	25m	100u	5.0 Ø*	3.0p	10	10	1.2m			400 Δ	1.1pt*	1.1m	125J	*Ø	L54	
28	SD5014*	112m	6.0†	*	100	50	25m	100u	5.0 Ø*	1.0n	10	10	500u			850 Δ	1.1pt*	1.1m	125J	*Ø	L53	
29	SD5015*	112m	6.0†	*	100	80	25m	100u	5.0 Ø*	3.0p	15	15	500u			850 Δ	1.1pt*	1.1m	125J	*Ø	L54	
30	VI1010	112m	6.0Δ	*	50	40	25m	100u	10n	1.0n	10	10	500u%				1.1pt	1.1m	125J	DØ		
31	2N3377	150m	5.0	5.0		30	100m	50m	6m%Δ	3.0n	0.0	10	.80m	2.3m†		1.5k†	2.0pΔ	1.0m	200S		u22	
32	2N3379	150m	5.0	5.0		30	100m	50m	6m%Δ	3.0n	0.0	10	1.5m	2.3m†		.75k†	2.0pΔ	1.0m	200S		u22	
33	2N3381	150m	9.5	5.0		30	100m	50m	20m%Δ	3.0n	0.0	10	1.5m	3m†		.60k†	2.0pΔ	1.0m	200S		u22	
34	2N3383	150m	5.0	5.0		30	100m	50m	30m%	15n	0.0	10	4.5m	13m†		.30k†	5.0pΔ	1.0m	200S		u22	
35	2N3385	150m	5.0	5.0		30	100m	50m	30m%	15n	0.0	10	7.5m	13m†		.18k†	5.0pΔ	1.0m	200S		u22	
36	2N3387	150m	9.5	5.0		30	100m	50m	50m%Δ	15n	0.0	10	7.5m	15m†		.15k†	7.0pΔ	1.0m	200S		u22	
37	K1501	150m	7.0Δ	10	15	50	35m				10	10	1.0m	2.0mΔ		300	1.0pΔ		175J	*	TO72	DR
38	K1502	150m	7.0Δ	10	15	50	35m				10	10	1.0m	2.0mΔ		300	1.0pΔ		175J	*	TO72	DR
39	K1504	150m	8.0Δ	10	15	50	35m				10	10	800u	2.0mΔ		700	1.0pΔ		175J	*	TO72	DR
40	TIXM301	150m			20	20		10m	25m	6.0p	5.0Ø	8.0	6.5m	20m	20u			2.0m	125	GeE	TO72	DG
41	UC140	180mt	4.0	20		30Δ			6.0mΔ	10p	0.0	20	2.2m			500	8.0p		200J	PE	TO72	DG
42	2N3882	200m	3.0Δ		30				1.0m				1.0mΔ							*	TO72	DK
43	MT01	200m	6.2Δ	*	40	25			20n		1.0Ø		650u	890uΔ		200		2.0m	125J	*	L25	
44#	MT101B	200m	6.5Δ	6.5*	25	25			20nΔ		1.0Ø	6.5	650u	850uΔ		470 Δ	6.9pt	2.0m	125C	*	R115	DR
45#	MT102B▼	200m	6.5Δ	6.5*	25	25			20nΔ		1.0Ø	6.5	650u	850uΔ		470 Δ	6.9pt	4.0m	125C	*	L54a	
46	RN1020	200m	3.0Δ	15*	25				25n	100p	1.0Ø	15	1.0m	2.4m			3.0pt		125J	Ø*	R38s	
47	RN1030	200m	3.0Δ	5.0*	25				1.5n	100p	5.0	.50				600	4.0pt		125J	Ø*	R38s	
48	RN1030A	200m	2.2Δ	5.0*	24				1.0n	100p	5.0	.50				450	3.0pt		125J	Ø*	R38s	
49	RN3020	200m	3.0Δ	15*	25				50n	100p	1.0Ø	15	1.0m	2.4m			4.0pt		125J	Ø*	R38af	
50	RN3020R	200m	3.0Δ	15*	25				50n	100p	1.0Ø	15	1.0m	2.4m			4.0pt		125J	Ø*	R38y	
51	RN3030	200m	3.0Δ	5.0*	15				5.0n	100p	5.0	.50				650	4.0p		125J	Ø*	R38af	
52	RN3030R	200m	3.0Δ	5.0*	15				5.0n	100p	5.0	.50				650	4.0p		125J	Ø*	R38y	
53#	SFF103	200m	5.0Δ	*	25	25	50				5.0Ø	15	1.0			150	3.0 Δ*	2.0m		*	TO72	DJ
54#	SFF121	200m	5.0Δ	*	20	25	20				5.0Ø	15	800m			600	500mΔ	2.0m		*Ø	TO72	DJ
55	VF28	200m	10†	10Δ	20Δ	20		50m	30mΔ	10n	0.0	10	2.0m	8.0m	100u	700 †	20p#	2.0m	125J	Ø	R124b	DB
56	2N5505▼	250m	4.0†	10		30		200u	7.0m	.25n	0.0	10	1.0m	3.5m	60u%		16p#	2.0m	150S	#Ø	L21	
57	2N5506▼	250m	4.0†	10		30		200u	7.0m	.25n	0.0	10	1.0m	3.5m	60u%		16p#	2.0m	150S	#Ø	L21	
58	2N5507▼	250m	4.0†	10		30		200u	7.0m	.25n	0.0	10	1.0m	3.5m	60u%		16p#	2.0m	150S	#Ø	L21	
59	2N5508▼	250m	4.0†	10		30		200u	7.0m	.25n	0.0	10	1.0m	3.5m	60u%		16p#	2.0m	150S	#Ø	L21	
60	2N5509▼	250m	5.0†	10		30		200u	7.0m	.25n	0.0	10	1.0m	3.5m	60u%		16p#	2.0m	150S	#Ø	L21	
61	2N5510Ø	250m	4.0†	10		30		200u	5.0m	.25n	0.0	10	.50m	3.0m	60u%		16p#	24m	150S	#Ø	L21	
62	2N5511Ø	250m	4.0†	10		30		200u	5.0m	.25n	0.0	10	.50m	3.0m	60u%		16p#	24m	150S	#Ø	L21	
63	2N5512Ø	250m	4.0†	10		30		200u	5.0m	.25n	0.0	10	.50m	3.0m	60u%		16p#	24m	150S	#Ø	L21	
64	2N5513Ø	250m	4.0†	10		30		200u	5.0m	.25n	0.0	10	.50m	3.0m	60u%		16p#	24m	150S	#Ø	L21	
65	2N5514Ø	250m	5.0†	10		30		200u	5.0m	.25n	0.0	10	.50m	3.0m	60u%		16p#	24m	150S	#Ø	L21	
66	DP1001▼	250m	4.0†	10Δ		30		10m	7.0m	250p	0.0	10	1.0m	3.5m	60u		16p	2.0m	150S	§	TO71	
67	DP1002▼	250m	4.0†	10Δ		30		10m	7.0m	250p	0.0	10	1.0m	3.5m	60u		16p	2.0m	150S	§	TO71	
68	DP1003▼	250m	4.0†	10Δ		30		10m	7.0m	250p	0.0	10	1.0m	3.5m	60u		16p	2.0m	150S	§	TO71	
69	DP1004▼	250m	4.0†	10Δ		30		10m	7.0m	250p	0.0	10	1.0m	3.5m	60u		16p	2.0m	150S	§	TO71	
70	DP1005▼	250m	4.0†	10Δ		30		10m	7.0m	250p	0.0	10	1.0m	3.5m	60u		16p	2.0m	150S	§	TO71	
71	DP1006▼	250m	4.0†	10Δ		30		10m	5.0m	250p	0.0	10	500u	3.0m	60u		16p	2.0m	150S	§	TO71	
72	DP1007▼	250m	4.0†	10Δ		30		10m	5.0m	250p	0.0	10	500u	3.0m	60u		16p	2.0m	150S	§	TO71	
73	DP1008▼	250m	4.0†	10Δ		30		10m	5.0m	250p	0.0	10	500u	3.0m	60u		16p	2.0m	150S	§	TO71	
74	DP1009▼	250m	4.0†	10Δ		30		10m	5.0m	250p	0.0	10	500u	3.0m	60u		16p	2.0m	150S	§	TO71	
75	DP1010▼	250m	5.0†	10Δ		30		10m	5.0m	250p	0.0	10	500u	3.0m	60u		16p	2.0m	150S	§	TO71	
76	2N2794	300m				20Δ		50m	5.0m	10n	0.0	10	1.0m%	3.0m%	100nΔ		6.0p#	2.0m	200S		TO5	DAØ
77	2N4088	300m	8.0†	10Δ	30	20		10m	15m	.10n		10	1.0m	1.6m	60u		10p#	1.7m	200C	Ø	TO72	DH
78	2N4089	300m	5.0†	10Δ	30	20		10m	8.0m	.10n		10	.80m	1.3m	40u		10p#	1.7m	200C	Ø	TO72	DH
79	3N89Ø	300m	4.0	5.0		30	50m		2.5m	5.0n	0.0	5.0	.45m	1.3m			.90pØ	2.0m	200S		TO72	DUØ
80	3N96	300m	4.0†	5.0		30	50m	10m	2.5m	5.0n	0.0	5.0	450u	1.3m			4.0p#%	2.0m	175A		L24a	
81	3N97	300m	4.0†	5.0		30	50m	10m	2.5m	5.0n	0.0	5.0	450u	1.3m			4.0p#%	2.0m	175A		L24a	
82#	BFX82	300m	5.0†	15	25Δ	25Δ			12m	1.0n	0.0	15	2.0m	6.0m	19u	.30k†	20p#	2.0m	175J	DPL	TO18	DAØ
83#	BFX83	300m	9.0†	15	25Δ	25Δ			30m	1.0n	0.0	15	4.0m	8.0m	30u	.18k†	20p#	2.0m	175J	DPL	TO18	DAØ
84	FN1024	300m	3.0Δ	15	30	20				.10n	1.0	15	1.0m	2.4m		80k			150J	MOS	RO38s	
85	FN1034	300m	3.0Δ	5.0	15	12				.10n	5.0					.50k	2.0pØ		150J	MOS	RO38s	
86	FP4339	300m	1.8	15		40		50m	1.5m	3.0n	0.0	15	.80m	2.4m		1.7k	7.0p#	2.0m	175	#	TO72	DG
87	FP4340	300m	3.0	15		40		50m	3.6m	3.0n	0.0	15	1.3m	3.0m		1.5k	7.0p#	2.0m	175	#	TO72	DG
88	MEM100†	300m	3.0Δ	10*	35	35	50m	100u	2.0n							150	9.0p#	2.0m	200S	*Δ	TO72	DM
89	MEM101†	300m	3.0Δ	10*	30	30	50m	100u	5.0n							175	10p#	2.0m	200S	*Δ	TO72	DM
90	MEM102†	300m	3.5Δ	10*	25	25	50m	100u	10n							200	11p#	2.0m	200S	*Δ	TO72	DM
91	MEM808	300m	5.5Δ	15*	40	40	50m	100u	1.0n	1.0n	15	20	2.0m			300 %	4.5p	3.0m	150	*Δ	TO72	DM
92	MM2103	300m	5.0Δ	*	25	75	30m		3.0mΔ	10p			1.0m			600	6.5p		200	*	R38y	
93	P1003	300m	3.0	10		50Δ			6.0m	3.0n	0.0	10†	1.0m	3.5m			20p%	1.7m	200J	PL	RO38l	
94	P1004	300m	5.0	10					20	3.0n	0.0	10†	2.5m	6.0m			20p%		200J	PL	R38l	
95	P1027	300m	3.0	10		30			6.0m	3.0n	0.0	10†	.75m	3.5m			20p%	1.7m	200J	PL	TO72	DH
96	P1028	300m	5.0	10		30Δ			20m	3.0n	0.0	10	2.5m	8.0m			30p	1.7m	200J	PL	TO72	DH
97	P1029	300m	8.0	10		30Δ			50m	3.0n	0.0	10	5.0m				50p%	1.7m	200J	PL	TO72	DH
98	P1069E	300m	4.0†	10	20	20Δ			5.0m	3.0n	0.0	10	3.0m	8.0m	100u%	600 %	40p#	2.5m	125J	Ø	R97b	DA
99	TIXS11	300m	3.0Δ	20*	30	30			10uΔ	3.0p			800u			1.0k	8.0p	2.0m	200	*		
100	U89Ø	300m	6.0	10		20	50m		5.0mΔ	10n	0.0	10		1.2mΔ				2.0m	150S	D	RO38q	
101	U139	300m	7.0	5.0		30		50m	35m	10n	0.0	10	7.0m			.12k	16pt	2.0m	200S	D#Δ	L61c	
102	U139D	300m	10	5.0		20		50m	50m	10n	0.0	10	5.0m			.11k	16pt	2.0m	200S	D#Δ	L61c	
103	UC300	300m	5.0	20		30		50m	3.8m	100p	0.0	20	1.0m			1.2k†	5.0p%		200J	PL	TO72	DG
104	UC305	300m	5.0	20		30		50m	3.8m	100p	0.0	20	1.0m			1.2k†	5.0p%		200J	PL	TO18	DD
105	UC310	300m	3.0	20		30		50m	1.5m	100p	0.0	20	750u			1.6k†	5.0p%		200J	PL	TO72	DG
106	UC315	300m	3.0	20		30		50m	1.5m	100p	0.0	20	750u			1.6k†	5.0p%		200J	PL	TO18	DD
107	UC320	300m	1.7	20		30		50m	600u	100p	0.0	20	300u			2.4k†	5.0p%		200J	PL	TO72	DG
108	UC325	300m	1.7	20		30		50m	600u	100p	0.0	20	300u			2.4k†	5.0p%		200J	PL	TO18	DD
109	UC330	300m	1.2	20		30Δ		50m	250u	100p	0.0	20	250u			4.8k†	5.0p#	1.7m	200J	PLØØ	TO72	DG
110	UC335	300m	1.2	20		30		50m	250u	100p	0.0	20	250u			4.8k†	5.0p%		200J	PL	TO18	DD

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

6. SILICON FIELD EFFECT TRANSISTORS - P CHANNEL

IN ORDER OF (1) DISSIPATION (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C O A D E
1	UC340	300m	4.0	5.0		50		50m	1.5m	1.0n	0.0	5.0	330u				10p		200J	PL	T072	DH
2	UC801	300m	6.0	20		25			1.5m	200p	0.0	20	75u	750u			3.0p#			PLØ		
3	UC803	300m	6.0	20		25			5.0m	500p	0.0	20	250u	2.5m			6.0p#			PLØ		
4	UC804	300m	8.0	20		25			12m#	500p	0.0	20	500u	5.0m		2.0kt	8.0p#			PEØ	T072	
5	UC850	300m	6.0	15		20			1.0m	2.0n	0.0	15	110u				6.0p#			PL	T018	
6	UC852	300m	6.0	20		25			30u#	2.0p	0.0	20	60u			6.0p					T018	
7#	ZTX350	300m	6.0†	6.0*	20	23			5.0mØ	3.0n	10	10	250u	1.0m		2.5kt	1.5p#	6.6m	70A	PL%†	X59	DA
8	DD07K	310m	5.5Δ		30	30	50m		1.0n	1.0n	15	15	4.0m	5.4m			6.0p#	2.4m	175A	*	L75	
9	DD08K	310m	5.5Δ		30	30	50m		1.0n	1.0n	15	15	4.0m	5.4m			6.0p#	2.4m	175A	*	T072	EG
10	DD09K	310m	5.5Δ		30	30	30m		1.0n	1.0n	15	15	2.0m	2.7mΔ		4.0k	3.0p#	2.5m	175A	*	L75a	
11	DD10K	310m	2.5Δ		30	20	50m		1.0n	1.0n	10	10	8.0mΔ				5.0p#	2.5m	175A	*	L75a	
12	DD11K	310m	6.0Δ		30	30	30m		1.0n	1.0n	15	15	1.4mΔ				3.0p#	2.5m	175A	*	L75a	
13	T1317	310m	6.0Δ		40	40	30m		1.0n	1.0n	15	15	1.4mΔ				3.0p#	2.5m	175A	*	L75a	
14	41004	350m	4.0Δ	6.0	30	30	35m			1.0p	1.0Ø	1.0	800u			40k	8.0p	3.5m	150		R96a	DC
15#	BSW95†	350m	6.0Δ	20*	30	50	20m	50m	3.0mØ	1.0n	15	15	600uΔ			1.5k	4.0pt%	2.3m	175J	DPL*	T072	DM
16#	BSW95At	350m	6.0Δ	20*	30	50	20m	50m	3.0mØ	1.0n	15	15	600uΔ			1.5k	4.0pt%	2.3m	175J	DPL*	T072	DM
17#	BSX83†	350m	6.0Δ	15	30	25	20m		12mØ		15	15	.40m	.60mΔ	25u	1.0k	4.5p#	.43m	175J	DPL*Ø	T072	DM
18#	BSX84†	350m	6.0Δ	15	30	25	20m		12mØ		15	15	.70m	.80mΔ	25u	.80k	4.5p#	.43m	175J	DPL*Ø	T072	DM
19#	FI100	350m	6.0Δ	*	30	40	35m		12mØ		10	10	300u	600uΔ		150k	3.0pØ	2.3m	175J	DPL*Ø	T072	DM
20	SC1600*	350m	7.0Δ	5.0*	30	30			5.0n		7Ø	7.0	.40m			25k		3.5m	150J	*Ø	L18b	
21	SC1601*	350m	7.0Δ	5.0*	30	30			100n		7Ø	7.0	.40m			25k		3.5m	150J	*Ø	L18b	
22	SC1611	350m	7.0Δ	5.0*	20	20			35n		7Ø	7.0	.80m			40k		3.5m	125A	*Δ	R96b	DM
23	SC1612	350m	7.0Δ	5.0*	20	20			35n		7Ø	7.0	.80m			40k		3.5m	125A	*Δ	R96c	DM
24	SC1613	350m	7.0Δ	5.0*	20	20			100n		7Ø	7.0	.80m			40k		3.5m	125A	*Δ	R96b	DM
25	SC1614	350m	7.0Δ	5.0*	20	20			100n		7Ø	7.0	.80m			40k		3.5m	125A	*Δ	R96c	DM
26	SC1625*	350m	6.0Δ	5.0*	30	30					7Ø	7.0	.40m			25k		3.5m	150J	*Ø	L18b	
27	TIXS67	360m	5.0Δ	15*	25	25	125m		40m#Ø	.05n	8Ø	15	3.5m	6.5m	250u%		10p#	.35m	150J	P*†	X55	DQ
28#	BSV20†	400m	6.0Δ	20*	30	50	200m	200m	16mØ	1.0n	15	15	4.6mΔ			250	12pt%	2.6m	175J	DPL*	T072	DM
29#	BSV20At	400m	6.0Δ	20*	30	50	200m	200m	16mØ	1.0n	15	15	4.6mΔ			250	12pt%	2.6m	175J	DPL*	T072	DM
30#	BSW30†	400m	6.0Δ	15*	30	25	500m		1nØ		15	15	3.0m	4.6mΔ	240u	.25kt	14p#	2.7m	175J	DPL*	T072	DM
31#	BSW31†	400m	6.0Δ	15*	30	25	500m		1nØ		15	15	5.0m	6.2mΔ	240u	.12kt	14p#	2.7m	175J	DPL*	T072	DM
32	DP146	400m	6.0	10		25Δ			250uΔ	10n	0.0	10	60u					2.3m	200J	P	T018	DAØ
33	DP147	400m	6.0	10		25Δ			650uΔ	20n	0.0	10	180u					2.3m	200J	P	T018	DAØ
34	RM5008D	400m	3.0Δ	5.0*	15					100p	10					330					L49y	
35	RM8007D	400m	3.0Δ	5.0*	15					100p	10					400					L49y	
36	DD12J	450m	5.5Δ		30	30	100m		1.0n	500p	10	10	9.0m	14m			13p#	3.6m	175A	*	L75	
37	DD13K	450m	5.5Δ		30	30	100m		1.0n	500p	10	10	9.0m	14m			13p#	3.6m	175A	*	L80	
38	DD15K*	450m	2.5Δ		25	30	35m		20m	5.0n	5.0	5.0	10mØ				10p#	3.6m	150A	*	T012	DM
39	DM01B*	500m	6.0Δ		30	70	30m		1.0n	100f	15	15	500uØ	800uΔ			2.0p#	1.8m	175A	*	L18b	
40	DM02B*	500m	6.0Δ		30	70	30m		1.0n	100f	15	15	500uØ	800uΔ			2.0p#	1.8m	175A	*	L18b	
41	DM03B*	500m	6.0Δ		30	70	30m		1.0n	100f	15	15	500uØ	800uΔ			2.0p#	1.8m	175A	*	L18b	
42	DM05A*	500m	5.5Δ		30	30	30m		1.0n	1.0n	15	15	2.0m	2.7m			3.0p#	3.3m	175A	*	L53	
43	DM06A*	500m	5.5Δ		30	30	30m		1.0n	1.0n	15	15	2.0m	2.7m			3.0p#	3.3m	175A	*	L54	
44	UC450	500m	10	20		25			75mΔ	250p			10m			60	25p			PL	T018	DA
45	UC451	500m	6.0	20		25			375mΔ	250p			6.0m			150	25p			PL	T018	DA
46	2SJ13	600m	6.0	10		20		50m	12m	.03n	0.0	10	1.5mΔ	6mΔ			8.0p*		150	PE	T05	
47#	BSV34†	600m	6.0Δ	20*	30	50	200m	200m	8.0mØ	1.0n	15	15	2.0mΔ			500	6.0pt%	4.0m	175J	DPL*	L51a	
48#	BSV34At	600m	6.0Δ	20*	30	50	200m	200m	8.0mØ	1.0n	15	15	2.0mΔ			500	6.0pt%	4.0m	175J	DPL*	L51a	
49#	BSX34Ø	600m	6.0Δ		30	25	200m				15	15	1.5m			5.0k	10p#	.25m	175J	DPL*§	L18a	
50#	BSX85*	600m	6.0Δ	15	30	25	200m		50mØ		15	15	1.5m	2.3mΔ	120u	.30k	7.0p#		175J	DPL*	T076	
51#	BSX86*	600m	6.0Δ	15	30	25	200m		50mØ		15	15	2.5m	3.1mΔ	120u	.12k	7.0p#		175J	DPL*	T076	
52#	FI0049*	600m	6.0Δ		30	25	200m		50mØ		15	20	2.0m			125k	5p*#	4.0m	175J	DPL*Ø	L18a	
53	MEM400†	600m	4.0Δ	10*	30	30	100m	100u	500p							40	25p#	4.0m	200S	*Δ	T033	DM
54	MEM401†	600m	5.0Δ	10*	30	30	100m	100u	2.5n							60	25p#	4.0m	200S	*Δ	T033	DM
55	MEM402†	600m	6.0Δ	10*	25	25	100m	100u	10n							75	30p#	4.0m	200S	*Δ	T033	DM
56	VI1023	900m	6.0Δ	*	30	60	50m	100u	6.0m	1.0n	10	10	2.5mΔ			150 Δ	6.0p†	9.0m	125J	DØ	L57	

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	MAX. Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs (V)	Vds (V)	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C O A D D E
1	HSC3921▼		2.7			50			10m	250p			1.5m		35u		18p#		125J	E#	L21e	
2	HSC3954▼		4.5			50			5.0m	100p			1.0m		35u		4.0p#		125J	E#	L21e	
3	MF100		5.0		20								1.0m							*	TO18	
4	MF101		8.0		20								1.5m							*	TO18	
5	UC23	20m	2.5	20		30			600u	10p										PE	u23	DB
6	DFNA3-100▼	50m	4.0	15		50△			2.5m△	1.0n	0.0	15	750u	2.0m			6.0p#	2.3m	150J	E	TO18	Ø
7	UC22	60m	5.0	20		30			2.0m	10p										PE	u23	DB
8	K1201	75m	5.0	10	15	50	15m		5.0m		0.0	10	1.0m	2.0m△		7.0k			175J	*	TO72	DR
9	K1202	75m	5.0	10	15	50	15m		5.0m		0.0	10	1.0m	2.0m△		7.0k			175J	*	TO72	DR
10#	0T3	90m	12%		80	110△		100u	900u	6.0u		35	70u	80u△	3.0u		900f%	1.3m	95	Ge	TO5	
11#	1T3	90m	20%		80	110△		100u	1.5m	6.0u		35	80u	90u△	3.0u		900f%	1.3m	95	Ge	TO5	
12#	2SK17	100m	6.0	10		20		10	6.5m	1.0n	0.0	10	700u				6.0p#	1.0m	125J	△Ø	R67a	DD
13#	2SK17GR	100m	6.0	10		20		10m	6.5m△	1.0n	0.0	10	700u				6.0p#	1.0m	125J	PEØ#	R67a	DA
14#	2SK17O	100m	6.0	10		20		10m	1.4m△	1.0n	0.0	10	700u				6.0p#	1.0m	125J	PEØ#	R67a	DA
15#	2SK17R	100m	6.0	10		20		10m	750u△	1.0n	0.0	10	700u				6.0p#	1.0m	125J	PEØ#	R67a	DA
16#	2SK17Y	100m	6.0	10		20		10m	3.0m△	1.0n	0.0	10	700u				6.0p#	1.0m	125J	PEØ#	R67a	DA
17#	2SK24C	100m	6.0†	10	40	40		10m	1.5m	10n		10	1.5m	12m			7.4p#*	1.0m	125J	#Ø	u101	DC
18#	2SK24D	100m	6.0†	10	40	40		10m	3.0m	10n		10	1.5m	12m			7.4p#*	1.0m	125J	#Ø	u101	DC
19#	2SK24E	100m	6.0†	10	40	40		10m	6.0m	10n		10	1.5m	12m			7.4p#*	1.0m	125J	#Ø	u101	DC
20#	2SK24F	100m	6.0†	10	40	40		10m	12m	10n		10	1.5m	12m			7.4p#*	1.0m	125J	#Ø	u101	DC
21#	2SK24G	100m	6.0†	10	40	40		10m	24m	10n		10	1.5m	12m			7.4p#*	1.0m	125J	#Ø	u101	DC
22#	3SK15	100m	2.0%	6.0△	25†	20	10m		5.0m△	10p	1.0Ø	6.0	500u	1.0m△	40u		4.0p*	800u	150S	*	TO72	DUØ
23#	3SK15A	100m	2.0%	6.0△	25†	20	10m		5.0m△	10p	1.0Ø	6.0	500u	1.0m△	40u		4.0p*	800u	150S	*	TO72	DUØ
24#	3SK16	100m	2.0%	6.0△	25†	20	10m		5.0m△	10p	1.0Ø	6.0	500u	1.0m△	40u	1.0k%	4.0p*	800u	150S	*	TO72	DUØ
25#	3SK17	100m	2.0%	6.0△	15†	20	10m		5.0m△	1.0n	1.0Ø	6.0	500u	1.0m△	40u		4.0p*	800u	150S	*	TO72	DUØ
26#	3SK18	100m			15		10m		5.0m	10p	1.0Ø	6.0	500u%			900	2.0p#		150S	*	TO72	DN
27#	3SK19	100m			15		10m		5.0m	10p	1.0Ø	6.0	500u%				2.0p#		150S	*	TO72	DN
28	40468	100m	6.0†	20	20	8.0	20m		50m△	.20n		15	7.5m△				10p#	4.0m	125A	Ø*	TO104	DW
29	40559	100m	6.0†	20	20	8.0	20m		50m△	1.0n							5.5p#	4.0m	125A	Ø*	TO104	DW
30#	K1	100m	4.0	5.0		20△	20m	10m	1.5m	10n	.50Ø	5.0	1.5m					1.0m	125J	#		
31#	K2	100m	4.0	5.0		20△	20m	10m	3.0m	10n	.50Ø	5.0	1.5m					1.0m	125J	#		
32#	K3	100m	4.0	5.0		20△	20m	10m	6.0m	10n	.50Ø	5.0	1.5m					1.0m	125J	#		
33#	NKT80111	100m	6.0	10		20		10m	6.0m	10n	0.0	10	.70m	3.5m		.45k	3.5p	.80m	150	#	TO17	DG
34#	NKT80112	100m	4.5	10		20		10m	5.0m	.10n	0.0	10	.80m	3.2m		.45k	3.5p	.80m	150	#	TO17	DG
35#	NKT80113	100m	4.5	10		12		10m	5.0m	.10n	0.0	10	.80m	3.2m		.45k	3.5p	.80m	150	#	TO17	DG
36	FF400♦	105m	7.0	10△	15△	15△		50m	6.0m	1.0n	0.0	10	1.5m				8.0pt	1.7m	200J	E△	TO72	DH
37	SD5050*	112m	5.5†	*	25	25	25m	100u	10n	1.0n	10	10	500u			250	1.5pt*	1.1m	125J	*Ø	L53	
38	SD5051*	112m	5.5†	*	25	40	25m	100u	10n	1.0n	10	10	500u			250	1.5pt*	1.1m	125J	*Ø	L54	
39	3N98	150m†	6.0†	12	32	2.0	15m		7.7m	.05n	0.0	12	1.0m	3.0m	250u%		7.0p#		85		RO38c△	
40	3N99	150m†	6.0†	12	32	2.0	15m		11m	.05n	0.0	12	1.0m	4.0m	300u%		7.0p#		85		RO38c△	
41#	528BSY	150m		*			50m		10n	10p						100 %		2.0m	125S	Ø*	TO72	DW§
42	40460Ø	150m		△	25	10			9.0m	10p	0.0	12	3.5 △			90 †	5.0p#	1.5m	125A	*	TO72	DRØ
43	40461	150m	6.0†	12△	25	10			14m	.01n	0.0	12	3.5m△			13k	5.0p#	.66m	125A	*	TO72	DRØ
44	A191	150m	4.0†	15△	20	20	10m	5.0m	10m	.50n	0.0	15	2.0m	8.0m			5.0p#	1.0m	175J	#	TO72	DH
45	A194	150m	4.0†	15△	25	25	15m	5.0m	8.0m	.50n	0.0	15	2.0m	8.0m	20u		5.0p	1.0m	150J	PE#	TO106	DD
46	A195	150m	4.0†	15△	25	25	15m	5.0m	6.0m	.50n	0.0	15	1.0m	6.0m	20u		5.0p	1.0m	150J	PE#	TO106	DD
47	A196	150m	4.0†	15△	25	25	15m	5.0m	15m	.50n	0.0	15	4.0m	10m	20u		5.0p	1.0m	150J	PE#	TO106	DD
48	A392	150m†				15	50m			10p						100	5.0p△	2.0m	125J	Ø*	TO72	DZ
49	A610L▼	150m	4.0†	15	30	30	10m	5.0m	8.0m	.10n	0.0	15	2.0m	8.0m			5.0p#	1.0m	200S		X70a	DH
50	A610S▼	150m	4.0†	15	30	30	10m	5.0m	8.0m	.10n	0.0	15	2.0m	8.0m			5.0p#	1.0m	200S		X70	DH
51	A611L▼	150m	4.0†	15	30	30	10m	5.0m	8.0m	.10n	0.0	15	2.0m	8.0m			5.0p#	1.0m	200S		X70a	DH
52	A611S▼	150m	4.0†	15	30	30	10m	5.0m	8.0m	.10n	0.0	15	2.0m	8.0m			5.0p#	1.0m	200S		X70	DH
53#	BFS67P	150m	6.0	15	50	50	50m	10m	10m	100p	0.0	15	1.5m	6.5m	20u		6.0p		150	PE	u17c	E
54#	BFS68P	150m	8.0	15	30	30	50m	10m	25m	500p	0.0	15	3.5m	6.5m	35u		6.0p		150	PE	u17c	E
55#	BSV38P†	150m△	10†	15	25	25	150m	10m	50m#%	250p						250 %	18p#	1.2m	150S	PEØ	u17c	E
56#	BSV39P	150m△	6.0†	15	25	25	150m	10m	100m%	500p						70	18p#	1.2m	150S	PEØ	u17c	E
57	K1001	150m	6.0	10	15	50	40m		12m		0.0	10	1.0m	2.4m△		10k	3.0pt		100J	*	TO72	DR
58	K1002	150m	6.0	10	15	50	40m		5.0m		0.0	10	1.0m	1.5m△		10k	3.0pt		100J	*	TO72	DR
59	K1003	150m	6.0	10	15	50	40m		20m			10	5.0m△	4.0m		500 %			100A	*	TO72	DR
60	K1004	150m	12	10	15	50	40m		7.0m		0.0	10	800u	1.6m△		10k	2.0pt		100J	*	TO72	DR
61	SFT601	150m	5.0	20	40	50	10m		.25m		1Ø	20	.35m	.4m△				1.0m	175S	PL*	TO72	DN
62	SFT602	150m	10	20	40	50	10m		1.5m		1Ø	20	.35m	.4m△				1.0m	175S	PL*	TO72	DN
63	SFT603	150m	20	20	40	50	10m		5.0m		1Ø	20	.35m	.4m△				1.0m	175S	PL*	TO72	DN
64#	SFT604	150m			30	50				.10n△	1Ø	10	.30m	40m△		200k		1.0m	175S	*	TO72	DN
65#	2SK19BL	200m	3.0%	10		18		10m	24m△	10n	0.0	10	7.0m△					2.0m	125J	PEØ#	R67a	DD
66#	2SK19GR	200m	3.0%	10		18		10m	14m△	10n	0.0	10	7.0m△					2.0m	125J	PEØ#	R67a	DD
67#	2SK19Y	200m	3.0%	10		18		10m	7.0m△	10n	0.0	10	7.0m△					2.0m	125J	PEØ#	R67a	DD
68#	3UT40	200m	2.0%	10△	20†	150	20m		5.0m△	1.0p	1.0Ø	10	500u	1.0m△	10u		6.0p*	1.6m	150S	*	T033	DUØ
69#	286-1BFY	200m	5.0	15△	30	10	20m		10m	50p		15	7.0m		500n			2.0m	125J	*	TO72	DW§
70	A197†	200m	10†	20△	30	30		50m	150m△	.50n						.03k%	16p	1.6m	150J	PE#Ø	TO106	DD
71	A198†	200m	5.0†	20△	30	30		50m	75m△	.50n						.06k%	16p	1.6m	150J	PE#Ø	TO106	DD
72	A199†	200m	3.0†	20△	30	30		50m	30m△	.50n						1.0k%	16p	1.6m	150J	PE#Ø	TO106	DD
73	A498	200m	5.0†	20△			20m			1.0n	4.0	13	.80m%	1.2m%			4.5p*	2.0m	125J	PE*$	TO72	DX☑
74	BFS28R	200m	5.0	20	20†		20m			1.0n	4.0	13	8.0m%					2.0m	135J	*	TO72	DX☑
75#	BSV22Ø	200m		△	30	30	50m		30m							200	5.0p	2.0m	150S	*	TO72	DW
76#	C84	200m	20	50			10m						.04m	.20m	.40u		10p*		150J	Ø	R111	DB
77#	C85	200m	25	50			10m						.05m	.25m	1.0u		10p*		150J	Ø	R111	DB
78	C680	200m	2.5	10△	30△	30△		50m	.40m	10n△	0.0	10	.20m	.50m	10u†		3pt*	1.1m	200J	E#	TO5	DD
79	C680A	200m	2.5	10△	30△	30△		50m	.40m	1.0n△	0.0	10	.20m	.50m	10u†		3pt*	1.1m	200J	E#	TO5	DD
80	C682	200m	5.0	10△	30△	30△		50m	1.6m	10n△	0.0	10	.40m	1.0m	20u†		3pt*	1.1m	200J	E#	TO5	DD
81	C682A	200m	5.0	10△	30△	30△		50m	1.6m	1.0n△	0.0	10	.40m	1.0m	20u†		3pt*	1.1m	200J	E#	TO5	DD
82	C684	200m	10	10△	30△	30△		50m	6.0m	10n△	0.0	10	.60m	1.5m	60u†		3pt*	1.1m	200J	E#	TO5	DD
83	C684A	200m	10	10△	30△	30△		50m	6.0m	1.0n△	0.0	10	.60m	1.5m	60u†		3pt*	1.1m	200J	E#	TO5	DD
84#	CF24	200m	8.0	15△	25	25		50m	40m	10n	0.0	15	2.0m	9.0m	200u	500 †	12p#	2.0m	125J		TO106	DB
85	FE0654C	200m	2.5†	15	25	25		50m	4.0m△	10n	0.0	15	2.0m%	6m%	24u	.30kt	20p#	2.0m	125J	DPL	TO106	DB
86	NPC108	200m	6.0	15△	25△	25		10m	25m%△	1.0n	0.0	15	4.0mt	8.0m%	100		5.0p#	2.0m	125S	PEt Ø	R110	DB
87	NPC108A	200m	5.0	15△	25△	25		10m	25m%△	1.0n	0.0	15	4.0mt	8.0m%	100		5.0p#	2.0m	125S	PEtØ	R110	DB
88#	SI231N	200m	.70%	5.0		15△			150u	1.0n	0.0	10	140u	500u			6.0p*	1.1	200J	PL	T018	DBØ
89#	SI232N	200m	1.0%	5.0		15△			300u	1.0n	0.0	10	280u	800u			6.0p*	1.1	200J	PL	T018	DBØ
90#	SI233N	200m	1.4%	5.0		15△			600u	1.0n	0.0	10	400u	1.0m			6.0p*	1.1	200J	PL	T018	DBØ
91#	SI234N	200m	2.0%	5.0		15△			1.5m	1.0n	0.0	10	650u	1.5m			6.0p*	1.1	200J	PL	T018	DBØ
92#	SI235N	200m	3.5%	5.0		15△			3.0m	1.0n	0.0	10	900u	2.0m			6.0p*	1.1	200J	PL	T018	DBØ
93#	SI236N	200m	5.0%	5.0		15△			6.0m	1.0n	0.0	10	1.3m	3.0m			6.0p*	1.1	200J	PL	T018	DBØ
94	M116A	225m	5.0		30		50			1.0p						100	8.0p	2.2m	125	*	TO72	
95	MEM200†	225m	1.6△	10*	35	35	50m									200	5.0p#	1.5m	200S	*	TO22	DR
96	MEM201†	225m	2.5△	10*	30	30	50m									300	5.0p#	1.5m	200S	*	TO22	DR
97	MEM202†	225m	3.5△	10*	20	20	50m									500	7.0p#	1.5m	200S	*	TO22	DR
98#	3SK33	250m	4.0†	10△	25†	30	20m		15m	1.0n	5Ø	10	4.0m		10u		3p#*	2.0m	150	*Ø	TO72	DW
99	DFNA3-50▼	250m	4.0	15		50△			2.5m△	1.0n	0.0	15	750u	2.0m			6.0p#	2.3m	150J	E	TO18	Ø
100	SU2074Ø	250m	3.0	10		50			1.3m	.10n	2Ø	10	.30m				7.0p%		200J		L21	
101	SU2075Ø	250m	3.0	10		50			1.3m	.10n	2Ø	10	.30m				7.0p%		200J		L21	
102#	1G2	300m	6.5	20		50△			16m		0.0	20	4.0m	5m△			7.5p	1.7m	200J	PE	TO72	DH
103#	2G2	300m	4.0	20		50△			8.0m		0.0	20	2.0m	3m△			7.5p	1.7m	200J	PE	TO72	DH
104	2N5801	300m	4.0†	15		40			15m	100p	0.0	15	4.5m	12m	40u%		15p#	2.0m	200S	Ø#	TO18	DB
105	2N5802	300m	6.0†	15		40			40m	100p	0.0	15	6.5m	14m	40u%		15p#	2.0m	200S	Ø#	TO18	DB
106	2N5803	300m	8.0†	15		40			80m	100p	0.0	15	8.0m	17m	200u%		15p#	2.0m	200S	Ø#	TO18	DB
107#	2SK32	300m	4.0†	10△	35†	45	20m	10m	10m	.10n	0.0	10	3.0m		10u		10p#	2.4m	150J	PE	u45	DA
108	3G2	300m	3.0	20		50△			4.0m		0.0	20	1.0m	2m△			7.5p	1.7m	200J	PE	TO72	DH
109#	4G2	300m	6.5	20		30△			16m		0.0	20	4.0m	5m△			7.5p	1.7m	200J	PE	TO72	DH
110#	5G2	300m	4.0	20		30△			8.0m		0.0	20	2.0m	3m△			7.5p	1.7m	200J	PE	TO72	DH

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	Idss @ Vgs=0& Vds>Vp (A)	Igss@ Vgs>Vp &Vds=0 (A)	PARAMETERS @25°C TEST COND Vgs	Vds	COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUCTURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	6G2	300m	3.0	20		30Δ			4.0m		0.0	20	1.0m	2mΔ			7.5p	1.7m	200J	PE	TO72 DH
2	A190	300m	4.0†	15Δ	30	30	10m	5.0m	8.0m	.10n	0.0	15	2.0m	8.0m			5.0p#	1.0m	200S	#	TO72 DH
3	A192	300m	8.0†	15Δ	30	30Δ	20m	10m	20mΔ	500p	0.0	15	3.5m	6.5m	85u		5.0p	1.6m	200J	PE#Ø	TO72 DH
4	A193	300m	6.0†	15Δ	30	30Δ	20m	10m	10mΔ	500p	0.0	15	3.0m	6.5m	50u		5.0p	1.6m	200J	PE#Ø	TO72 DH
5	A390†	300m	5.0Δ	10*	25	35Δ	30m		10n	10p	2.0Ø	10	1.0m			300 †	5.5p	1.6m	200J	*	TO72 DZ
6#	BFS67	300m	6.0	15	50	50	50m	10m	10m	100p	0.0	15	1.5m	6.5m	20u		6.0p		150	PE	u34
7#	BFS68	300m	8.0	15	30	30	50m	10m	25m	500p	0.0	15	3.5m	6.5m	35u		6.0p		150	PE	u34
8#	BSV38†	300mΔ	10†	15	25	25	150m	10m	50m#%	250p						25	18p#	2.4m	150S	PEØ	u51 G
9#	BSV39	300mΔ	6.0†	15	25	25	150m	10m	100m%	500p						70	18p#	2.4m	150S	PEØ	u51 G
10#	C80	300m	30	50			10m						.05m	.25m	1.0u				150J		R111 DB
11	CM600	300m	7.0	1.5Δ	3.0Δ	10Δ	100m	100m	50m*%	3.0n	0.0	10	10m†	30m		.06kΔ	6.5p†	2.3m	200J	E#	TO18 DD
12	CM601	300m	10	1.5Δ	3.0Δ	10Δ	100m	100m	50m%	3.0n	0.0	10	10m†	30m		60 Δ	6.5p†	2.3m	200J	E#	TO18 DD
13	CM602	300m	10	1.5Δ	2.0Δ	30Δ	100m	100m	70mΔ%	10n	0.0	10	10m†	30m		40 Δ	6.5p†	2.3m	200J	E#	TO18 DD
14	CM603	300m	1.5	1.5Δ	5.0Δ	15Δ	100m	100m	100mΔ%	3.0n	0.0	10	20m†	60m		30 Δ	6.5p†	2.3m	200J	E#	TO18 DD
15	DN3365A	300m	12	20		40		10m	4.0m	5.0n	0.0	30	.40m	2.0m	50u		15p	2.4m	150C		TO18 DBØ
16	DN3366A	300m	6.5	20		40		10m	1.0m	5.0n	0.0	30	.25m	1.0m	20u		15p	2.4m	150C		TO18 DBØ
17	DN3367A	300m	2.2	20		40		10m	.25m	5.0n	0.0	30	.10m	1.0m	10u		15p	2.4m	150C		TO18 DBØ
18	DN3368A	300m	12	20		40		10m	12m	5.0n	0.0	30	1.0m	4.0m	80u		20p	2.4m	150C		TO18 DBØ
19	DN3369A	300m	6.5	20		40		10m	2.5m	5.0n	0.0	30	.60m	2.5m	30u		20p	2.4m	150C		TO18 DBØ
20	DN3370A	300m	3.2	20		40		10m	.60m	5.0n	0.0	30	.30m	2.5m	15u		20p	2.4m	150C		TO18 DBØ
21	DN3436A	300m	9.8	20		50		10m	15m	.50n	0.0	20	2.5m	10m	35u		18p	1.7m	200C		TO18 DBØ
22	DN3437A	300m	4.8	20		50		10m	4.0m	.50n	0.0	20	1.5m	6.0m	20u		18p	1.7m	200C		TO18 DBØ
23	DN3438A	300m	2.3	20		50		10m	1.0m	.50n	0.0	20	.80m	4.5m	5.0u		18p	1.7m	200C		TO18 DBØ
24	DN3458A	300m	7.8	20		50		10m	15m	.25n	0.0	20	2.5m	10m	35u		18p	1.7m	200C		TO18 DBØ
25	DN3459A	300m	3.4	20		50		10m	4.0m	.25n	0.0	20	1.5m	6.0m	20u		18p	1.7m	200C		TO18 DBØ
26	DN3460A	300m	1.8	20		50		10m	1.0m	.25n	0.0	20	.80m	4.5m	5.0u		18p	1.7m	200C		TO18 DBØ
27	FT0654E	300m	2.5†	20	50	50		50m	4.0mΔ	1.0n	0.0	20	2.0m%	6m%	24u	.30k†	20p#	2.0m	175J	DPL	TO18 DBØ
28	MD1F3458	300m	8.0†	20		50Δ		10m	15m	5.0n	0.0	20	2.5m	10m			18p#		150A	Δ	TO122 GP
29	MD1F3459	300m	4.0†	20		50Δ		10m	4.0m	5.0n	0.0	20	1.5m	6.0m	20u		18p#		150A	Δ	TO122 GP
30	MD1F3460	300m	2.0†	20		50Δ		10m	1.0m	5.0n	0.0	20	800u	4.5m	50u		18p#		150A	Δ	TO122 GP
31	MD1F3823	300m	8.0	15	30Δ	30Δ		10m	20n%	5.0n	0.0	15	3.2m%		35u*		6.0p#		150A		TO122 GP
32	MD1F4416	300m	6.0†	15		30Δ		10m	15m	500u	0.0	15	4.5m	7.5m†	50u		4.0p#		150A		TO122 GP
33	MM2102	300m	4.0Δ	*	25	75	30		10uΔ	10p			1.0m			200	4.5p		200	*	R38y
34#	PH244N♦	300m	3.0†	15	25	25		10m	30m%	200p	0.0	15	8.0m	15m†			13p#	1.7	200S	PEΔ	
35	SI221N	300m	.30	5.0		8.0Δ			.15m	2.0n	0.0	5.0	.40m	1.2m			30p	2.0m			TO72 DUØ
36	SI222N	300m	.50	5.0		8.0Δ			.30m	2.0n	0.0	5.0	.70m	1.8m			30p	2.0m			TO72 DUØ
37	SI223N	300m	.70	5.0		8.0Δ			.60m	2.0n	0.0	5.0	1.0m	2.4m			30p	2.0m			TO72 DUØ
38	SI224N	300m	1.0	5.0		8.0Δ			1.5m	2.0n	0.0	5.0	1.6m	3.6m			30p	2.0m			TO72 DUØ
39	SI225N	300m	1.5	5.0		8.0Δ			3.0m	2.0n	0.0	5.0	2.2m	5.0m			30p	2.0m			TO72 DUØ
40	SI226N	300m	2.5	5.0		8.0Δ			6.0m	2.0n	0.0	5.0	3.0m	7.0m			30p	2.0m			TO72 DUØ
41#	SI244N	300m	3.0†	15	25	25		10m	30m%	200p	0.0	15	8.0m	15m†		100 %	13p#	1.7	200S	PEΔØ	TO18 DBØ
42#	SI245N	300m	5.0†	15	25	25		10m	35m%	200p						80 %	13p#	1.7	200S	PEΔØ	TO18 DBØ
43#	SI246N	300m	10†	15	25	25		10m	75m%	200p						60 %	13p#	1.7	200S	PEΔØ	TO18 DBØ
44	SU2076▼	300m	3.0	10		50Δ			10u	250p	.70Ø	10†	1.5m		20u		18p	1.7m	200J	Ø	L21
45	SU2077▼	300m	3.0	10		50Δ			10u	250p	.70Ø	10†	1.5m		20u		18p	1.7m	200J	Ø	L21
46	SU2078▼	300m	4.0	10		50Δ			2.0m	.25n	.2Ø	10†	.30m		5.0u		7.0p	1.7m	200J		L21
47	SU2079▼	300m	4.0	10		50Δ			2.0m	.25n	.2Ø	10†	.30m		5.0u		7.0p	1.7m	200J		L21
48	u89Ø	300m	6.0	10		20	50m		5.0mΔ	10n	0.0	10		1.2mΔ				2.0m	150S	D	R38q
49	u205▼	300m	4.0	20		50		50m	7.0m	25p	0.0	20	1.0m	4.0m			6.0p#	1.7m	200S	#	TO71
50	u206▼	300m	4.0	20		50		50m	7.0m	25p	0.0	20	1.0m	4.0m			6.0p#	1.7m	200S	#	TO71
51	u207▼	300m	4.0	20		50		50m	7.0m	25p	0.0	20	1.0m	4.0m			6.0p#	1.7m	200S	#	TO71
52	U203	300m	5.0	15		30		50m	2.0m	1.0n	0.0	15	300u	2.0m	50u%		6.0p#	2.0m	200S	ØΔ	TO72
53	U204	300m	5.0	15		30		50m	2.0m	1.0n	0.0	15	300u	2.0m	50u%		6.0p#	2.0m	200S	ØΔ	TO72
54	U205▼	300m	4.0	20		50		50m	7.0m	.02n	0.0	20	1.0m	4.0m			6p#	1.7m	200S	#	TO71
55	U206▼	300m	4.0	20		50		50m	7.0m	.02n	0.0	20	1.0m	4.0m			6p#	1.7m	200S	#	TO71
56	U207▼	300m	4.0	20		50		50m	7.0m	.02n	0.0	20	1.0m	4.0m			6.0p#	1.7m	200S	#	TO71
57	U2047E	300m	8.0†	15	30	30	30m		25m	250p	0.0	15	4.5m		50u%		4.0p#	2.5m	125J	Ø	R97b DD
58	UC105	300m	5.0	20		30		10m	7.5m	100p	0.0	20	2.0m			600 †	5.0p%		200J	PL	TO18 DD
59	UC120	300m	1.7	20		30		10m	1.2m	100p	0.0	20	1.0m			1.2k†	5.0p%		200J	PL	TO72 DH
60	UC125	300m	1.7	20		30		10m	1.2m	100p	0.0	20	1.0m			1.2k†	5.0p%		200J	PL	TO18 DD
61	UC135	300m	1.2	20		30		10m	500u	100p	0.0	20	500u			2.4k†	5.0p%		200J	PL	TO18 DD
62	UC258	300m	3.0†	15		30		50m	30m	100p	10Ø	15	12m	24m	50u		14p#	1.7m	200J	PLØ	TO72
63	UC701	300m	6.0	15		40			3.0m	200p										PE	TO72
64	UC750	300m	6.0	15		30			50u#	2.0n										PE	TO18
65	UT100	300m	6.0	10		25		10m	30m	100p	10Ø	10	6.0m	10m	200u§		5.0p§	1.7m	150A	#	u77 EE
66	UT101	300m	6.0	10		25		10m	30m	100p	10Ø	10	6.0m	10m	200u%		5.0p#	1.7m	150A	#	u77a EF
67	HSC4391†	310m	10	20	40	40		50m	150m%	100p						30 %	14p#	3.1m	125J	E#	TO106 DB
68	HSC4392†	310m	5.0	20	40	40		50m	75m%	100p						60 %	14p#	3.1m	125J	E#	TO106 DB
69	HSC4393†	310m	3.0	20	40	40		50m	30m%	100p						100 %	14p#	3.1m	125J	E#	TO106 DB
70	HSC4416	310m	6.0	15	30	30		10m	15m	100p	0.0	15	4.5m%	7.5m%	50u%		4.0p#	3.1m	125J	E#	TO106 DB
71	HSC4416A	310m	6.0	15	35	35		10m	15m	100p	0.0	15	4.5m%	7.5m%	50u%		4.0p#	3.1m	125J	E#	TO106 DB
72	HSC5163	310m	8.0	15	25	25		50m	40m	10n	0.0	15	2.0m	9.0m	200u%	500 %	12p#	3.1m	125J	E#	TO106 DB
73	HSC5457	310m	6.0	15		25			5.0m%	1.0n	0.0	15	1.0m	5.0m	50u*		7.0p#	3.1m	125J	E#	TO106 DB
74	HSC5457A	310m	6.0	15		50			5.0m%	1.0n	0.0	15	1.0m	5.0m	50u*		7.0p#	3.1m	125J	E#	TO106 DB
75	HSC5458	310m	7.0	15		25			9.0m%	1.0n	0.0	15	1.5m	5.5m	50u*		7.0p#	3.1m	125J	E#	TO106 DB
76	HSC5458A	310m	7.0	15		50			9.0m%	1.0n	0.0	15	1.5m	5.5m	50u*		7.0p#	3.1m	125J	E#	TO106 DB
77	HSC5459	310m	8.0	15		25			16m%	1.0n	0.0	15	2.0m	6.0m	50u*		7.0p#	3.1m	125J	E#	TO106 DB
78	HSC5459A	310m	8.0	15		50			1.6m%	1.0n	0.0	15	2.0m	6.0m	50u*		7.0p#	3.1m	125J	E#	TO106 DB
79	HSC5484	310m	3.0			25		10m	5.0m	1.0n	0.0	15	3.0m	6.0m	50u		4.0p#	3.1m	125J	E#	TO106 DB
80	HSC5485	310m	4.0			25		10m	10m	1.0n	0.0	15	3.5m	7.0m	60u		4.0p#	3.1m	125J	E#	TO106 DB
81	HSC5486	310m	6.0			25		10m	20m	1.0n	0.0	15	4.0m	8.0m	75u		4.0p#	3.1m	125J	E#	TO106 DB
82	HSC5638†	310m	12			30			50m	1.0n						30 %	10p#	3.1m	125J	E#	TO106 DB
83	HSC5639†	310m	8.0			30			25m	1.0n						60 %	10p#	3.1m	125J	E#	TO106 DB
84	HSC5640†	310m	6.0			30			5.0m	1.0n						100 %	10p#	3.1m	125J	E#	TO106 DB
85#	ZFT12	350m	2.4	20	25	25				10nΔ	0.0	20	400u	1.0m					150J	PL$	TO33 DY
86#	ZFT12A	350m	2.4	20	25	25				30nΔ	0.0	20	400u	1.0m					150J	PL$	TO33 DY
87#	ZFT14	350m	7.9	20	25	25				10nΔ	0.0	20	900u	2.0m					150J	PL$	TO33 DY
88#	ZFT14A	350m	7.9	20	25	25				30nΔ	0.0	20	900u	2.0m					150J	PL$	TO33 DY
89#	ZFT16	350m	5.0%	20	50	10			10m	10n	0.0	20	3.0mΔ			300 †	30p*		150J	PL	TO33
90#	ZFT18	350m	5.0%	20	100	10			10m	10n	0.0	20	3.0mΔ			300 †	30p*		150J	PL	TO33
91	LDF603	360m	8.0†	15Δ	20	20	30m	10m	8.0m	500p	0.0	15	1.0m	4.0m	150u%		5.0p#	2.9m	150J	Ø	TO122 DB
92	LDF604	360m	8.0†	15Δ	20	20	30m	10m	12m	500p	0.0	15	2.5m	5.5m	150u%		5.0p#	2.9m	150J	Ø	TO122 DB
93	LDF605	360m	8.0†	15Δ	20	20	30m	10m	20m	500p	0.0	15	3.0m	7.0m	150u%		5.0p#	2.9m	150J	Ø	TO122 DB
94	LDF691†	360m	10†	20Δ	30	30		50m		.50n	0.0	20				.03k	16p	2.9m	150J	Ø	u34 DB
95	LDF692†	360m	5.0†	20Δ	30	30		50m		.50n	0.0	20				.06k	16p	2.9m	150J	Ø	u34 DB
96	LDF693	360m	3.0†	20Δ	30	30		50m		500u	0.0	20				100	16p	2.9m	150J	Ø	u34 DB
97#	NKT80211	360m	.50	5.0		10		10m	.15m	10n	0.0	5.0	.20m	.70m		.40k	23p	1.8m	200	#	TO18 DB
98#	NKT80212	360m	.70	5.0		10		10m	.30m	10n	0.0	5.0	.40m	1.1m		.40k	23p	1.8m	200	#	TO18 DB
99#	NKT80213	360m	1.0	5.0		10		10m	.60m	10n	0.0	5.0	.60m	1.5m		.40k	23p	1.8m	200	#	TO18 DB
100#	NKT80214	360m	1.5	5.0		10		10m	1.5m	10n	0.0	5.0	.90m	2.2m		.40k	23p	1.8m	200	#	TO18 DB
101#	NKT80215	360m	2.5	5.0		10		10m	3.0m	10n	0.0	5.0	1.3m	3.0m		.40k	23p	1.8m	200	#	TO18 DB
102#	NKT80216	360m	3.5	5.0		10		10m	6.0m	10n	0.0	5.0	1.8m	4.2m		.40k	23p	1.8m	200	#	TO18 DB
103	NPC211N	360m	.50%	5.0	5.0	8.0Δ	200u	90u	150u	10n	0.0	5.0	200m	700m			25p		200J		TO18 DBØ
104	NPC212N	360m	.70%	5.0	5.0	8.0Δ	200u	180u	300u	10n	0.0	5.0	400m	1.1			25p		200J		TO18 DBØ
105	NPC213N	360m	1.0%	5.0	5.0	8.0Δ	200u	400u	600u	10n	0.0	5.0	600m	1.5			25p		200J		TO18 DBØ
106	NPC214N	360m	1.5%	5.0	5.0	8.0Δ	200u	900u	1.5m	10n	0.0	5.0	900m	2.2			25p		200J		TO18 DBØ
107	NPC215N	360m	2.5%	5.0	5.0	8.0Δ	200u	1.8m	3.0m	10n	0.0	5.0	1.3	3.0			25p		200J		TO18 DBØ
108	NPC216N	360m	3.5%	5.0	5.0	8.0Δ	200u	4.0m	6.0m	10n	0.0	5.0	1.8	4.2			25p		200J		TO18 DBØ
109#	SI211N	360m	.50%	5.0		8.0Δ			150u	10n	0.0	5.0	200u	700u			23p*	2.0	200J	PL	TO18 DBØ
110#	SI212N	360m	.70%	5.0		8.0Δ			300u	10n	0.0	5.0	400u	1.1m			23p*	2.0	200J	PL	TO18 DBØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION
(2) TYPE No.

LINE No.	2 TYPE No.	1 MAX. DEVICE DISS @25°C (W)	MAX. Vp @ Id=0 (V)	MAX. Vp & Vds (V)	ABS MAX RATINGS@25°C BVdss (V)	BVgss (V)	Id (A)	Ig (A)	MAX. Idss @ Vgs=0& Vds>Vp (A)	Igss@ Vgs>Vp &Vds=0	TEST COND Vgs (V)	Vds (V)	PARAMETERS @25°C COMMON SOURCE gfs (mhos) MIN	gfs (mhos) MAX	Yos mhos	r(DS) on (Ω)	MAX. Cis (F)	DERATE IN FREE AIR W/°C	MAX TEMP (°C)	STRUC-TURE	DWG #L C Y200 E O s/a A D TO200 D E Ser.
1#	SI213N	360m	1.0%	5.0		8.0Δ			600u	10n	0.0	5.0	600u	1.5m			23p*	2.0	200J	PL	TO18 DBØ
2#	SI214N	360m	1.5%	5.0		8.0Δ			1.5m	10n	0.0	5.0	900u	2.2m			23p*	2.0	200J	PL	TO18 DBØ
3#	SI215N	360m	2.5%	5.0		8.0Δ			3.0m	10n	0.0	5.0	1.3m	3.0m			23p*	2.0	200J	PL	TO18 DBØ
4#	SI216N	360m	3.5%	5.0		8.0Δ			6.0m	10n	0.0	5.0	1.8m	4.2m			23p*	2.0	200J	PL	TO18 DBØ
5	TIXS78	360m	10†	30		300Δ		10m	10m%	2.0n	0.0	30	.75m	3.0m	100u%	1.5k%	3.0pΔ	.35m	150J	P†	X55 DB
6	TIXS79	360m	12†	30		200Δ		10m	10m%	2.0n	0.0	30	.75m	3.0m	100u%	2.0k%	3.0pΔ	.35m	150J	P†	X55 DB
7#	BFX78	375m		Δ	15Δ	25Δ			26m			12	6.0	9.0 Δ			2.7p#	2.5m	175J	DPE*Ø	TO72 DS
8	FT57†	375m		Δ	15Δ	25Δ			26m		0.0	12	6.0m%	9.0mΔ			2.7p#*	2.5m	175J	DPE*Ø	TO72 DS
9	C673	400m	10	15	40Δ	40Δ		50m	6.0m	10nΔ	0.0	15	1.0m	2.5m	20u		5.0p†	2.3m	200J	E	TO5 DD
10	C674	400m	10	15	40Δ	40Δ		50m	6.0m	10nΔ	0.0	15	1.0m	2.5m	20u		5.0p†	2.3m	200J	E	TO18 DD
11	CMX740†	400m	10	5.0		30	1.0	100m	500mΔ%	10n						2.5 %		2.3m	200J	E	TO46 DDØ
12	D1101	400m	10	10		25Δ			4.0mΔ	10n	0.0	20	400u	2.0m		2.8kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
13	D1102	400m	5.0	10		25Δ			1.0mΔ	10n	0.0	20	300u	1.0m		3.6kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
14	D1103	400m	2.5	10		25Δ			250uΔ	10n	0.0	20	200u	1.0m		5.5kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
15	D1177	400m	10	20		50Δ			4.0mΔ	5.0n	0.0	20	400u	2.0m		2.8kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
16	D1178	400m	5.0	20		50Δ			1.0mΔ	5.0n	0.0	20	300u	1.0m		3.6kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
17	D1179	400m	2.5	20		50Δ			250uΔ	5.0n	0.0	20	200u	1.0m		5.5kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
18	D1180	400m	10	20		50Δ			10mΔ	5.0n	0.0	20	1.0m	4.0m		1.1kΔ	3.5pØ	2.3m	200J	E	TO18 DBØ
19	D1181	400m	5.0	20		50Δ			2.5mΔ	5.0n	0.0	20	750u	2.5m		1.5kΔ	3.5pØ	2.3m	200J	E	TO18 DBØ
20	D1182	400m	2.5	20		50Δ			600uΔ	5.0n	0.0	20	500u	2.5m		2.5kΔ	3.5pØ	2.3m	200J	E	TO18 DBØ
21	D1183	400m	8.0	20		50Δ			15m	5.0n	0.0	20	2.5m	10m			6.0pØ		200J	E	TO18 DBØ
22	D1184	400m	4.0	20		50Δ			4.0m	5.0n	0.0	20	1.5m	6.0m			6.0pØ		200J	E	TO18 DBØ
23	D1185	400m	2.0	20		50Δ			1.0m	5.0n	0.0	20	.80m	4.5m			6.0pØ		200J	E	TO18 DBØ
24	D1201	400m	10	10		25Δ			10mΔ	10n	0.0	20	1.0m	4.0m		1.1kΔ	5.0pØ	2.3m	200J	E	TO18 DBØ
25	D1202	400m	5.0	10		25Δ			2.5mΔ	10n	0.0	20	600u	2.5m		1.8kΔ	5.0pØ	2.3m	200J	E	TO18 DBØ
26	D1203	400m	2.5	10		25Δ			600uΔ	10n	0.0	20	300u	2.5m		3.6kΔ	5.0pØ	2.3m	200J	E	TO18 DBØ
27	D1301	400m	8.0	10		25Δ			15m	10n	0.0	20	2.5m	10m			6.0pØ		200J	E	TO18 DBØ
28	D1302	400m	4.0	10		25Δ			4.0m	10n	0.0	20	1.5m	6.0m			6.0pØ		200J	E	TO18 DBØ
29	D1303	400m	2.0	10		25Δ			1.0m	10n	0.0	20	.80m	4.5m			6.0pØ		200J	E	TO18 DBØ
30	D1420	400m	4.0	10		25Δ			5.0mΔ	1.0n	0.0	20	1.0m				5.0pØ	2.3m	200J	N-E	TO18 DBØ
31	D1421	400m	6.0	10		25Δ			10mΔ	1.0n	0.0	20	2.0m				6.0pØ	2.3m	200J	N-E	TO18 DBØ
32	D1422	400m	10	10		25Δ			15mΔ	5.0n	0.0	20	1.0m				5.0pØ	2.3m	200J	N-E	TO18 DBØ
33	DN3066A	400m	10	30		50Δ			4.0mΔ	1.0n	0.0	30	.40m	1.0m			10p#	2.3m	200J	N-E	TO18 DBØ
34	DN3067A	400m	5.0	30		50Δ			1.0mΔ	1.0n	0.0	30	.30m	1.0m			10p#	2.3m	200J	N-E	TO18 DBØ
35	DN3068A	400m	2.5	30		50Δ			.25mΔ	1.0n	0.0	30	.20m	1.0m			10p#	2.3m	200J	N-E	TO18 DBØ
36	DN3069A	400m	10	30		50Δ			10mΔ	1.0n	0.0	30	1.0m	2.5m			15p#	2.3m	200J	N-E	TO18 DBØ
37	DN3070A	400m	5.0	30		50Δ			2.5mΔ	1.0n	0.0	30	.75m	2.5m			15p#	2.3m	200J	N-E	TO18 DBØ
38	DN3071A	400m	2.5	30		50Δ			.60mΔ	1.0n	0.0	30	.50m	2.5m			15p#	2.3m	200J	N-E	TO18 DBØ
39	DNX1	400m	8.0	20		50Δ			6.0mΔ	1.0n	0.0	20	.40m	1.5m		2.7k%	2.0pØ	2.3m	200J	N-E	TO18 DBØ
40	DNX1A	400m	8.0	20		50			6.0m	1.0n	0.0	20	.40m	1.5m		2.7k	2.0p	2.3m	200J	E	TO18
41	DNX2	400m	4.0	20		50Δ			1.0mΔ	1.0n	0.0	20	.30m	1.0m		3.6k%	2.0pØ	2.3m	200J	N-E	TO18 DBØ
42	DNX2A	400m	4.0	20		50			1.0m	1.0n	0.0	20	.30m	1.0m		3.6k	2.0p	2.3m	200J	E	TO18
43	DNX3	400m	2.0	20		50Δ			.25mΔ	1.0n	0.0	20	.20m	.70m		5.5k%	2.0pØ	2.3m	200J	N-E	TO18 DBØ
44	DNX3A	400m	2.0	20		50			.25m	1.0n	0.0	20	.20m	.70m		5.5k	2.0p	2.3m	200J	E	TO18
45	DNX4	400m	8.0	20		50Δ			10mΔ	1.0n	0.0	20	1.0m	2.5m		1.1kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
46	DNX4A	400m	8.0	20		50			10m	1.0n	0.0	20	1.0m	2.5m		1.1k	2.0p	2.3m	200J	E	TO18
47	DNX5	400m	4.0	20		50Δ			2.5mΔ	1.0n	0.0	20	750u	2.5m		1.5kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
48	DNX5A	400m	4.0	20		50			2.5m	1.0n	0.0	20	.75m	2.5m		1.5k	2.0p	2.3m	200J	E	TO18
49	DNX6	400m	2.0	20		50Δ			600uΔ	1.0n	0.0	20	500u	2.5m		2.2kΔ	2.0pØ	2.3m	200J	E	TO18 DBØ
50	DNX6A	400m	2.0	20		50			.60m	1.0n	0.0	20	.50m	2.5m		2.2k	2.0p	2.3m	200J	E	TO18
51	DNX7	400m	8.0	10		50Δ			15mΔ	1.0n	0.0	20	2.5m	10m		400 Δ	6.0pØ	2.3m	200J	E	TO18 DBØ
52	DNX7A	400m	8.0	10		50			15m	1.0n	0.0	20	2.5m	10m		.40k	6.0p	2.3m	200J	E	TO18
53	DNX8	400m	4.0	10		50Δ			4.0mΔ	1.0n	0.0	20	1.5m	6.0m		750uΔ	6.0pØ	2.3m	200J	E	TO18 DBØ
54	DNX8A	400m	4.0	10		50			4.0m	1.0n	0.0	20	1.5m	6.0m		.75k	6.0p	2.3m	200J	E	TO18
55	DNX9	400m	2.0	10		50Δ			1.0mΔ	1.0n	0.0	20	800u	4.5m		1.5kΔ	6.0pØ	2.3m	200J	E	TO18 DBØ
56	DNX9A	400m	2.0	10		50			1.0m	1.0n	0.0	20	.80m	4.5m		1.5k	6.0p	2.3m	200J	E	TO18
57	MD1F3066	400m	10	30		50Δ		100m	4.0m	5.0n	0.0	30	400u	1.0m	50u		10p#		150A		TO122 GP
58	MD1F3067	400m	50	30		50Δ		100m	1.0m	5.0n	0.0	30	300u	1.0m	20		10p#		150A		TO122 GP
59	MD1F3068	400m	2.5	30		50Δ		100m	250u	5.0n	0.0	30	200u	1.0m	5.0u		10p#		150A		TO122 GP
60	MD1F3069	400m	10	30		50Δ		100m	10mΔ	5.0n	0.0	30	1.0m	2.5m	80u		15p#		150A		TO122 GP
61	MD1F3070	400m	5.0	30		50Δ		100m	2.5mΔ	5.0n	0.0	30	750u	2.5m	30u		15p#		150A		TO122 GP
62	MD1F3071	400m	2.5	30		50Δ		100m	600uΔ	5.0n	0.0	30	500u	2.5m	7.0u		15p#		150A		TO122 GP
63	PFN3066*	400m	8.0	30		50			4.0mΔ	1.0n	0.0	30	400u	1.0m			2.0pØ	2.3m	200J	E	TO18 Ø
64	PFN3069*	400m	8.0	30		50			10mΔ	1.0n	0.0	30	1.0m	2.5m			3.0pØ	2.3m	200J	E	TO18 Ø
65	PFN3458*	400m	8.0	30		50			15mΔ	1.0n	0.0	30	2.5m	10m			5.0pØ	2.3m	200J	E	TO18 Ø
66	CF2386	500m	8.0	12		20Δ		10m	9.0m	10n	0.0	10	1.0m				50p	2.3m	200J	E	TO5 A
67	FM1100*	500m	3.0†	15	35	35Δ		100u	1.2m	100p	0.0	15	500u	3.0m	35u%		5.0p#	2.8m	200J	#Ø	L74
68	FM1101*	500m	3.0†	15	35	35Δ		100u	1.2m	100p	0.0	15	500u	3.0m	35u%		5.0p#	2.8m	200J	#Ø	L74
69	FM1102*	500m	3.0†	15	35	35Δ		100u	1.2m	100p	0.0	15	500u	3.0m	35u%		5.0p#	2.8m	200J	#Ø	L74
70	FM1103*	500m	3.0†	15	35	35Δ		100u	1.2m	100p	0.0	15	500u	3.0m	35u%		5.0p#	2.8m	200J	#Ø	L74
71	FM1104*	500m	3.0†	15	35	35Δ		100u	1.2m	100p	0.0	15	500u	3.0m	35u%		5.0p#	2.8m	200J	#Ø	L74
72	FM1105*	500m	6.0†	15	35	35Δ		100u	10m	100p	0.0	15	1.0m	6.0m	50u%		5.0p#	2.8m	200J	#Ø	L74
73	FM1106*	500m	6.0†	15	35	35Δ		100u	10m	100p	0.0	15	1.0m	6.0m	50u%		5.0p#	2.8m	200J	#Ø	L74
74	FM1107*	500m	6.0†	15	35	35Δ		100u	10m	100p	0.0	15	1.0m	6.0m	50u%		5.0p#	2.8m	200J	#Ø	L74
75	FM1108*	500m	6.0†	15	35	35Δ		100u	10m	100p	0.0	15	1.0m	6.0m	50u%		5.0p#	2.8m	200J	#Ø	L74
76	FM1109*	500m	6.0†	15	35	35Δ		100u	10m	100p	0.0	15	1.0m	6.0m	50u%		5.0p#	2.8m	200J	#Ø	L74
77	FM1110*	500m	10†	15	25	35Δ		100u	10m	1.0n	0.0	15	500u	6.0m			5.0p#	2.8m	200J	#	L74
78	FM1111*	500m	10†	15	25	35Δ		100u	10m	1.0n	0.0	15	500u	6.0m			5.0p#	2.8m	200J	#	L74
79	FM1200*	500m	2.0†	15	35	35Δ		100u	2.5m	200p	0.0	15	800u	4.5m	35u%		8.0p#	2.8m	200J	#Ø	L74
80	FM1201*	500m	2.0†	15	35	35Δ		100u	2.5m	200p	0.0	15	800u	4.5m	35u%		8.0p#	2.8m	200J	#Ø	L74
81	FM1202*	500m	2.0†	15	35	35Δ		100u	2.5m	200p	0.0	15	800u	4.5m	35u%		8.0p#	2.8m	200J	#Ø	L74
82	FM1203*	500m	2.0†	15	35	35Δ		100u	2.5m	200p	0.0	15	800u	4.5m	35u%		8.0p#	2.8m	200J	#Ø	L74
83	FM1204*	500m	2.0†	15	35	35Δ		100u	2.5m	200p	0.0	15	800u	4.5m	35u%		8.0p#	2.8m	200J	#Ø	L74
84	FM1205*	500m	7.0†	15	35	35Δ		100u	20m	200p	0.0	15	3.0m	10m	50u%		8.0p#	2.8m	200J	#Ø	L74
85	FM1206*	500m	7.0†	15	35	35Δ		100u	20m	200p	0.0	15	3.0m	10m	50u%		8.0p#	2.8m	200J	#Ø	L74
86	FM1207*	500m	7.0†	15	35	35Δ		100u	20m	200p	0.0	15	3.0m	10m	50u%		8.0p#	2.8m	200J	#Ø	L74
87	FM1208*	500m	7.0†	15	35	35Δ		100u	20m	200p	0.0	15	3.0m	10m	50u%		8.0p#	2.8m	200J	#Ø	L74
88	FM1209*	500m	7.0†	15	35	35Δ		100u	20m	200p	0.0	15	3.0m	10m	50u%		8.0p#	2.8m	200J	#Ø	L74
89	FM1210*	500m	7.0†	15	25	25Δ		100u	20m	1.0n	0.0	15	800u	10m			8.0p#	2.8m	200J	#	L74
90	FM1211*	500m	7.0†	15	25	25Δ		100u	20m	1.0n	0.0	15	800u	10m			8.0p#	2.8m	200J	#	L74
91	MD1F4391	500m	10	20		40Δ		50m	150m%	5.0n						30 †	14p#		150A	ØΔ	TO122 GP
92	MD1F4392	500m	5.0	20		40Δ		50m	75m%	5.0n						60 †	14p#		150A	ØΔ	TO122 GP
93	MD1F4393	500m	3.0	20		40Δ		50m	30m%	5.0n						100 †	14p#		150A	ØΔ	TO122 GP
94	MPF1000	500m	3.0†	15	25	20	30m		15m	20n	4.0	15	10m	20m			5.5p#	5.0m	175J	†%	u102 EE
95	2N2620	600m	20	30Δ		50Δ		5.0m	50m	100n	0.0	30	2.0m	4.0m					200J		TO5 DBØ
96	MFE2097	1.5	7.0†	15	50	50		10m	100m	1.0n	0.0	15	10m†	20m	200u%		20p	10m	175J	Δ	R34a
97	MFE2098	1.5	10†	15	50	50		10m	100m	1.0n	0.0	15	14m†	25m	400u%		20p	10m	175J	Δ	R34a
98	MFE2133	1.5			30	30Δ		10m	25m#		0.0	10	12m†			60 †	20p	10m	175J	Δ	R34a
99	2N4091A†	1.8	10†	20Δ	50	50		10m	30m%	40p						30	16p#	10m	200S	Ø	TO18 DBØ
100	2N4092A†	1.8	7.0†	20Δ	50	50		10m	15m%	40p						50	16p#	10m	200S	Ø	TO18 DBØ
101	2N4093A†	1.8	5.0†	20Δ	50	50		10m	8.0m%	40p						80	16p#	10m	200S	Ø	TO18 DBØ
102	2N4094†	1.8			40Δ	40		10m	75m%#							.02k%	32p#	10m	200C		TO18 DBØ
103	2N4095†	1.8			40Δ	40		10m	20m%#							.04k%	32p#	10m	200C		TO18 DBØ
104	CFM13026	1.8 Δ	7.0†	15	40	40		10m	50m%	1.0n	0.0	15	15m†	25m†	200u*		20p#	10m	175J	#	TO18 DB
105	u182†	1.8 Δ	10	20		40		50m	120m							40	20p	10m	200S	Δ	TO18
106	U182†	1.8 Δ	10	20		40		50m	120m							40	20p	10m	200S	Δ	TO18
107	RM3036	5.0 Δ				50							1.0 Δ								TO5

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CONFIDE
1	2N71		1.0	*A	250m		75		50				20		250k†			A		
2	2N230		15 Ø		2.0	.25	60	30	30	1.5m	4.0Ø	.50	60	106	12k			A		
3#	2SB361		12 Ø		5.0	1.0	80	1.0	80	.10m	2.0Ø	1.0 Ø	50	280	50k			D	TO3	
4#	11T1		2.5	#J	1.5		12	6.0				500m	20							
5#	12T1		2.5	#J	1.5		24	12				500m	20	40						
6#	13T1		2.5	#J	1.5		24	12				500m	40	80						
7#	14T1		2.5	#J	1.5		24	12				500m	80	160						
8#	15T1		2.5	#J	1.5		60	30				500m	10	25						
9#	16T1		2.5	#J	1.5		60	30				500m	25	50						
10	82T1		1.2	ØJ	1.5		30	10		80u	1.0Ø	1.0	30 Ø		1.0M†					
11	440C-C		5.0	#S	1.0		50	25		500uØ			30 Ø							
12	440C-E		14	#S	1.0		50	25		500uØ			30 †							
13	441C		15	#S	2.0		50	25		300uØ			60 †							
14	442C-A		1.5	#S	500m		50	25		100uØ			50 †							
15	442C-D		3.0	#A	500m		50	25		100uØ			50 †							
16#	AD152		6.0 Ø*	#J	1.0		45	12	23 *	30u	1.0Ø	500m	35 #	160 #				A	MD17	CØ
17#	AD155		6.0 Ø*				25	12	15 *	30u		500m	35 #	115 Ø						CØ
18#	AD164		6.0 Ø*	#J	1.0		25	10	20 *	200u	1.0Ø	500m	60 #	185 Ø				A	MD17	CØ
19#	ADY28		45 Ø	#S	6.0		80				2.0Ø	2.0	50 Ø		500k§			A	TO3	
20#	ADY30		150 Ø		50 #		45		30			15	50			10m		A	TO36	C
21#	ADY31		85 Ø		160 #		60		40			150	15			2.0m		A		
22#	ADY32		35 Ø		160 #		80		50			150	15			2.0m		A		
23	CTP1002		2.2	#A	2.5		60			100u			35 †							
24	CTP1003		2.2	#A	2.5		60			100u			15 †							
25	CTP1004		2.2	#A	2.5		40			100u			15 †							
26	CTP1005		2.2	#A	2.5		40			100u			25 †							
27	CTP1006		2.2	#A	2.5		40			100u			35 †							
28	CTP1119		25	#J			60			2.0m	12	.25	80							
29	GFT26		6.0	†A		2.0		10			6.0	500m			300k†					
30#	GFT2006		6.0 Ø		2.0		10	8.0			6.0	.50	25 Ø		300k†					
31#	RT150A		85	♦J	160		60	20	40		2.0Ø	150 Ø	15					A	X78	B
32#	RT150B		85	♦J	160		80	20	50		2.0Ø	150 Ø	15					A	X78	B
33#	XC121	5.0m		ØJ			35	12	16	10uØ	1.0	200m	40					A	R7	
34#	XC161	5.0m					26	6.0	16	7.0uØ	1.0	400m	40					A	R7	
35#	XC131	10m		ØJ			35	12	16	.01mØ	1.0	.20	40					A§	MM7	
36#	XC163	15mØ		ØJ			26	6.0	16	7.0uØ	1.0Ø	400m	40					A	X7	
37#	XC171	15mØ		ØJ			26	6.0	16	.01m	1.0Ø	.40	40					A§	MM7	
38	2N1126	16mØ	1.0	#J	250m		40	40		75u	6.0	10m	40 Ø		400k†Δ			A		
39	2N1127	16mØ	1.0	#J	250m		40	40		75u	1.0	500m	100 Ø		1.5M†			A		
40#	2SB27	20mØ		ØJ	.50		15	10	15	.80mØ	1.5Ø	.20	18	46	7.0k			A	TO3	
41#	2SB28	20mØ		ØJ	.50		15	10	15	.80m	1.5Ø	.20	35	96	7.0k			A	TO3	
42#	2SB29	20mØ		ØJ	.50		15	10	15	.80m	1.5Ø	.20	72	186	7.0k			A	TO3	
43#	2SB142	25mØ		#J	1.0		30	12	30	1.0m	1.5Ø	1.0	12	31	7.0k			A	TO3	
44#	2SB143	25mØ		#J	1.0		30	12	30	1.0m	1.5Ø	1.0	23	59	7.0k			A	TO3	
45#	2SB144	25mØ		#J	1.0		30	12	30	1.0m	1.5Ø	1.0	45	119	7.0k			A	TO3	
46#	AC117	25m	1.1 Ø*	#J	1.0		32	10	18 *	30uØ	2.0Ø	150m	115 Ø					A	X9	A
47#	AC124	25m	1.1 Ø*	#J	1.0		45	10	32 *	30u	2.0Ø	150m	65 Ø					A	X9	A
48#	AC178	25m	1.1 Ø*	#J	700m		20	10	15 *	35uØ	2.0Ø	150m	60 #					A	X9	A
49#	2SB140	29mØ		#J	1.5		40	12	40	.60m	1.5Ø	1.0	62	89	7.0k			A	TO3	
50#	2SB141	29mØ		#J	1.5		60	12	60	.60m	1.5Ø	1.0	62	89	7.0k			A	TO3	
51#	2SB147	29mØ		#J	1.5		60	12	60	.60mØ	1.5Ø	.20	28	119	7.0k			A	TO3	
52	JAN2N528	33m	1.0	#S	1.0	500m	40	40	40 #	50u	1.0Ø	500m	20			500m	500nØ	A	TO38Ø	
53	2N1940	40m	3.5 Ø	#S	250m		30	1.0	15	5.0uØ	7.5Ø	40m	5.0		350M§Δ		370n		MT30	AØ
54	GA53242	41mØ		#J	500m	100m	40	40	40	45u	1.0Ø	200m	45	133	6.8M†			A△		
55#	2SA231	44mØ		Ø	400m		40	12		50u	6.0	70m	30 †	110	2.5k†				TO8	
56#	2SA232	44mØ		Ø	400m		30	12		50u	6.0	70m	30 †	175	4.0k†				TO8	
57#	2SB81	44mØ		ØJ	500m		80	12		50uØ	2.0Ø	100m	45 Ø		4.0M†			A	MD10	
58#	2SB82	44mØ		ØJ	500m		100	12		35uØ	2.0Ø	100m	45 Ø		4.0M†			A	MD10	
59	JAN2N1940	45m	3.5 Ø	#J	250m†		30 †	1.0†		100u	7.5Ø	40m	5.0						MT30	
60	2N1609	66m	4.5 Ø	#J	1.5 Ø	250m	80	40	60	17uØ	2.0Ø	100m	30	75		2.0			TO37	
61	2N1610	66m	4.5 Ø	#J	1.5 Ø	250m	80	40	60	17uØ	2.0Ø	100m	50	125		1.2			TO37	
62	2N1611	66m	4.5 Ø	#J	1.5 Ø	250m	60	20	40	17uØ	2.0Ø	100m	30	75		2.0			TO37	
63	2N1612	66m	4.5 Ø	#J	1.5 Ø	250m	60	20	40	17uØ	2.0Ø	100m	50	125		1.2			TO37	
64	2N2467	66m	5.0 Ø	♦C	3.0	1.0	60	1.5	30	10m♦	1.0Ø	500m	30	90	20M§Δ	400m			R50	AØ
65	2N2468	66m	5.0 Ø	♦C	3.0	1.0	100	1.5	60	10m♦	1.0Ø	500m	30	90	20M§Δ	400m			R50	AØ
66	2N2469	66m	5.0 Ø	♦C	3.0	1.0	200	1.5	100	10m♦	1.0Ø	500m	30	90	20M§Δ	400m			R50	AØ
67	2N2564/5	66m	5.0 Ø	#J	3.0	1.0	40	10	30	650u	1.0	3.0	20	60	7.0k	250m		A	TO5	AØ
68	2N2565/5	66m	5.0 Ø	#J	3.0	1.0	60	10	40	650u	1.0	3.0	20	60	7.0k	250m		A	TO5	AØ
69	2N2566/5	66m	5.0 Ø	#J	3.0	1.0	80	10	50	650u	1.0	3.0	20	60	7.0k	250m		A	TO5	AØ
70	2N2567/5	66m	5.0 Ø	#J	3.0	1.0	100	10	60	650u	1.0	3.0	20	60	7.0k	250m		A	TO5	AØ
71#	TF78/30	66m†	2.7 Ø	ØJ	600m		32	10	24	30m	.70Ø	50mΔ	30	150	700k†		6.0u	A△		
72#	TF78/60	66m†	2.7 Ø	ØJ	600m		64	16	45	30m	.70Ø	50mΔ	30	150	700k†		6.0uØ	A△		
73#	2SB80	67mØ		#J	1.0		25	10		.04m	1.5	.50	70 Ø		6.0M†			A	MD10	
74	2N1013	71m		#J	75	.25	60	30		1.0m	2.0	7.5M	23	60			.60u	A△		
75	H3A	71m		#J	.60	.25	60	30		1.0m	2.0	5.0m	10	25			1.2u	A△		
76	H4A	71m		#J	.75	.25	60	30		1.0m	2.0	7.5m	23	60			.60u	A△		
77#	TF77	77m		ØJ	.60		16	5.0	16	.03m	5.0Ø	.05	23 Ø					A		
78#	TF77/30	77m		ØJ	.60		32	10	32	.03m	10Ø	.10	32 Ø					A		
79#	TF78	77m	2.0 Ø	ØJ	600m		16	5.0	16	30u	.30Ø	600m	20	150	700k	60		A△		
80	2N68	80m		ØJ	1.5		30	15	15	5.0m	6.0	50m	40 Ø		400k†					
81	2N101	80m		ØJ	1.5		30	15	15	5.0m	6.0	50m	40 Ø		400k†				OV4	
82	2N141	80mØ		ØJ	800m		60	30	30	5.0m	12	50m	40 Ø		400k†				MM1	
83	2N143	80mØ		ØJ	800m		60	30	30	5.0m	12	50m	40 Ø		400k†					
84#	2SB62	80m	4.0	ØJ	500m		60	12	60 §	70uØ	1.0	500m	30	125	200k†Δ			A	MD10	AØ
85#	2SB63	80m	4.0	ØJ	500m		32	12	32 §	70uØ	1.0	500m	30	125	200k†Δ			A	MD10	AØ
86#	2SB255	80mØ		ØJ	600m		35	10		500uØ	1.5	200m	30	120				A	MD10	
87#	2SB256	80mØ		ØJ	600m		35	10		500u	1.5	200m	30	250				A	MD10	
88#	THP45	83mØ		#J			15					2.0	20	200						
89#	THP46	83mØ		#J			30					2.0	20	200						
90#	THP47	83mØ		#J			60					2.0	20	200						
91	2N1645	86m	1.0	#J	300m			1.0	20	15uØ	10Ø	200m	20	35 Ø	600M§	5.0	37nØ	D	TO38	
92#	2SB462	100m	6.0 Ø	#J	2.0	2.0 Ø	60	12	60 §	70uØ	1.0Ø	500mØ	30	250 *	900k†			A	TO66	CØ
93	AT202	100m	3.0 Ø	#J	3.0		100			200uØ								D		
94#	NKT301A	100mØ		#	2.0	.20	30	15	30	.05mØ	1.5	1.0	30		1.0M†				TO8	
95#	NKT302A	100mØ		#	2.0	200m	30	15	30	50uØ	1.5	25m	50		1.0M†				TO8	
96	V15/20IP	100mØ		ØJ	2.0		15	7.0	7.0	.05mØ	1.5	.02	20	100	300k†			A		
97#	V30/20IP	100m		ØJ	2.0		30	15	15	.05mØ	1.5	.02	20	100	300k†			A		
98#	V60/20IP	100m		ØJ	2.0		60	30	30	.05mØ	1.5	.02	20	100	300k†			A		
99#	2SB331	106m	8.0 #								2.0	5.0	20	125	.35k†				TO36	
100#	2SB332	106m	8.0 #								2.0	5.0	20	125	.35k†				TO36	
101#	2SB333	106m	8.0 #								2.0	5.0	25	70	.35k†				TO36	
102#	2SB334	106m	8.0 #								2.0	5.0	25	50	.35k†				TO36	
103	2N2535†	133m	1.0	#C	3.0	500m	60 †	20†	30	250u	2.0Ø	400m	40	120	8.0kΔ	500m	7.5u†Ø		MT43	AØ
104	2N2536†	133m	1.0	#C	3.0	500m	80 †	20†	40	250u	2.0Ø	400m	40	120	8.0kΔ	500m	7.5u†Ø		MT43	AØ
105#	2SB130	133m		ØJ	1.5		32	10	16	.10mØ	1.0Ø	1.5	20 Ø					A	MD11	
106#	AD156	133m*	6.0 Ø	#J	2.0		32	10	16	30mØ	1.0Ø	300m	50	250	1.5M§			A		
107#	AD157	133m*	6.0 Ø	#J	2.0		32	10	24	30mØ	1.0Ø	300m	50	250	1.5M§			A		
108#	AD169	133m	6.0	#J	1.0		45	12	30	30u	1.0Ø	500m	35	160	11k			A	MD17	
109#	AUZ11	133mØ		ØJ	2.0	200m	50	70	30	100uØ							6.0u	D	R95	
110	OC30	133mØ	3.6 Ø	ØJ	1.4	250m	32	10	16 §	12uØ	7.0	100m		35 Ø	300k†			A	MD11	

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	OC30A	133m	4.0 Ø	ØJ	1.4	250m	32	10	16	40uØ	1.0Ø	1.4	12	65		180m		A	MD11	
2#	OC30B	133m	4.0 Ø	ØJ	1.4	250m	60	10	32	40uØ	1.0Ø	1.4	12	65		180m		A	MD11	
3#	OD603	133mØ		ØJ			40	10	30	25uØ								A	R95	
4#	OD603/50	133mØ		ØJ	1.0 #		60	30	50	25uØ								A	R95	
5	2N83A	149m		#S	2.0		66	12			1.5Ø	.50	8.0		400k†					
6	2N84	149m		#S	2.0		50	12			1.5Ø	.50	12		400k†	1.5				
7	2N84A	149m			3.0		50	12			1.5Ø	.50	12		450k†	1.5				
8#	2SB144P	166m		#J	1.0		30	12	30	1.0m	1.5	1.0	45	119	7.0k†			A		
9	AT200	166m	5.0 Ø	#J	10		320			200uØ								D	TO3	
10#	2SB143P	167mØ		#J	1.0		30	12	30	1.0m	1.5	1.0	23	59	7.0k†			A		
11#	2SB274	185m	12 Ø	#J	6.0		80	1.5		1.0mØ	1.5Ø	1.0 △	50 Ø					A	MD24	
12#	2SB275	185m	12 Ø	#J	6.0		120	1.5	105	1.0uØ	1.5Ø	4.0	40 Ø		1.0k†			D	MD24	
13#	2SB276	185m	12 Ø	#J	10		120	1.5	105	1.0uØ	1.2Ø	10	35 Ø		1.0k†			D	MD24	
14#	2SB362	185m	12 Ø	#J	7.0	1.0	100	1.0	40	500uØ	2.0Ø	4.5	90 Ø		50k	160m		A	MD24	
15	2N325	200m		#J	2.0		35		35	.50mØ	1.0	1.0	35 Ø		150k†				MD9	
16	2N1658	200m	15 Ø	#J	1.0 Ø	500m	80	40	50	500u	2.0Ø	200m	30	90	500k§△	250m	5.0u	A	MT9	
17	2N1659	200m	15 Ø	#J	1.0 Ø	500m	60	40	40	500u	2.0Ø	200m	30	90	500k§△	250m	5.0u	A	MT9	
18#	2SB83	200mØ		#	3.0		40	10	32	5.0m	1.5	.70	70 Ø		.40k†				TO3	
19#	2SB84	200mØ		#	3.0		60	10	32	5.0m	1.5	.70	70 Ø		.40k†				TO3	
20#	2SB107	200m	10	ØJ	2.0		30	15		100u	1.0Ø	300m	20	120	500k†			A	TO8	
21#	2SB238	200m	13 Ø	#J	1.0		40		30	100u	1.0Ø	300m	40	80	500k†			A	TO8	
22#	2SB239	200m	13 Ø	#J	1.0		80	30	45	100u	1.0Ø	300m	30	90	500k†	1.0		A	TO8	
23#	2SB239A	200m	13 Ø	#J	1.0		100	30	50	100u	1.0Ø	300m	30	90	500k†	1.0		A	TO8	
24#	2SB240	200m	13 Ø	#J	1.0		40		30	200u	1.0Ø	300m	30	90	500k†			A	TO8	
25#	2SB240A	200m	13 Ø	#J	1.0		60		40	200u	1.0Ø	300m	30	90	500k†			A	TO8	
26#	2SB241	200m	13 Ø	#J	1.0		80	30	45	200u	1.0Ø	300m	30	90	500k†	1.0		A	TO8	
27#	2SB241A	200m	13 Ø	#J	1.0		100	30	50	200u	1.0Ø	300m	30	90	500k†	1.0		A	TO8	
28#	2SB242	200m	13 Ø	#J	1.0		30		20	1.0m	1.0Ø	300m	20	60	500k†			A	TO8	
29#	2SB242A	200m	13 Ø	#J	1.0		60		30	1.0m	1.0Ø	300m	20	60	500k†			A	TO8	
30#	2SB243	200m	13 Ø	#J	1.0		30		20	1.0m	1.0Ø	300m	40	150	500k†			A	TO8	
31#	2SB243A	200m	13 Ø	#J	1.0		60		30	1.0m	1.0Ø	300m	40	150	500k†			A	TO8	
32#	2SB244	200m	13 Ø	#J	1.0		80	30	40	1.0m	1.0Ø	300m	20	60	500k†			A	TO8	
33#	2SB245	200m	13 Ø	#J	1.0		80	30	40	1.0m	1.0Ø	300m	40	150	500k†			A	TO8	
34#	AD159	200m*	90 Ø	#J	8.0		40	10	22	1.0m	.50Ø	5.0	20	45 Ø	300k§			A	TO8	
35#	AD160	200m*	90 Ø	#J	10		40	10	22	1.0m	.50Ø	5.0	50	90 Ø	300k§			A	TO8	
36#	GFT2006/30	200m		ØJ	2.0		30	20	15	1.0m	2.0	.50	25	50	400k†	.80		A		
37#	GFT2006/60	200m		ØJ	2.0		60	20	30	1.0mØ	2.0	.50	25	50	400k†	.80		A		
38#	GFT2006/90	200m		ØJ	2.0		90	20	45	1.0mØ	2.0	.50	25	50	400k†	.80		A		
39#	2SB413	208m	12 Ø	#J	1.5		60	1.0	60 §	100uØ	1.0Ø	5.0	30	150	2.0M§			D	MD10	
40#	2SB414	208m	12 Ø	#J	1.5		32	1.0	32 §	100uØ	1.0Ø	5.0	30	150	2.0M§			D	MD10	
41	355	222mØ		ØJ	1.5	.10	35	35		1.0m		1.0						A		
42#	2SB355	250m	15 Ø	#J	1.0	1.0 Ø	25	12	25 Ø	100uØ	1.5Ø	500m	30 Ø	120 Ø				A	MD10	
43#	2SB356	250m	15 Ø	#J	1.0	1.0 Ø	80	12	80 Ø	50uØ	1.5Ø	500m	25 Ø	120 Ø				A	MD10	
44#	2SB357	250m	15 Ø	#J	1.0	1.0 Ø	100	12	100 Ø	50uØ	1.5Ø	500m	20 Ø	120 Ø				A	MD10	
45#	GFT4308/40	250mØ		ØJ	4.0	1.0	40	15	40	.50m	2.0	.50	30	70	10k†	.40	20u	A	MD12	
46#	GFT4308/60	250mØ		ØJ	4.0	1.0	60	15	60	.50m	2.0	.50	30	70	10k†	.40	20u	A	MD12	
47#	GFT4308/80	250mØ		ØJ	4.0	1.0	80	15	80	.50m	2.0	.50	30	70	10k†	.40	20u	A	MD12	
48#	GFT4608/40	250mØ		ØJ	4.0	1.0	40	15	40	.50m	2.0	.50	60	100	12k†	.40	20u	A	MD12	
49#	GFT4608/60	250mØ		ØJ	4.0	1.0	60	15	60	.50m	2.0	.50	60	100	12k†	.40	20u	A	MD12	
50#	GFT4608/80	250mØ		ØJ	4.0	1.0	80	15	80	.50m	2.0	.50	60	100	12k†	.40	20u	A	MD12	
51	PADT50	250m	6.0	ØJ	700m	50m	70	1.5	60	600uØ	10	600m△	40		60M§		200n	AD	TO3	CØ
52#	SFT113	250m		ØJ	3.0	.50	30	10	15	1.0m	2.5Ø	2.0	40 Ø		300k†	.23		A		
53#	SFT114	250m		ØJ	3.0	.50	60	10	30	1.0m	2.5Ø	2.0	40 Ø		300k†	.23		A		
54#	TF80	250m		ØJ	2.5		16			.10mØ	6.0Ø	.30	45 Ø					A		
55#	TF80/30	250mØ	6.0 Ø	ØJ	2.5		32	10	30	100u	6.0Ø	300m	45 Ø		250k†		12u	A△	R57	
56#	TF80/60	250mØ	6.0 Ø	ØJ	2.5		64	20	45	100u	6.0	300m	45 Ø		250k†		12u	A△	R58	
57#	TF80/80	250mØ	6.0 Ø	ØJ	3.0		80	20	80	230u	1.3Ø	1.5	15	30 Ø	250k†		12u	A△	R58	
58	2N1042-2⧄	263m	1.0	#J	3.0	1.0	40	20	30	650u	1.0Ø	3.0	20	60	7.0k	250m		A△	R122	
59	2N1042-2†	263m	1.0 #	J	3.0	1.0	40	20	30	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	MT28	AØ
60	2N1042-2Ø	263m	1.0 #	J	3.0	1.0	40	20	30	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	R122	
61	2N1043-2⧄	263m	1.0	#J	3.0	1.0	60	20	40	650u	1.0Ø	3.0	20	60	7.0k	250m		A△	R122	
62	2N1043-2†	263m	1.0 #	J	3.0	1.0	60	20	40	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	MT28	AØ
63	2N1043-2Ø	263m	1.0 #	J	3.0	1.0	60	20	40	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	R122	
64	2N1044-2⧄	263m	1.0	#J	3.0	1.0	80	20	50	650u	1.0Ø	3.0	20	60	7.0k	250m		A△	R122	
65	2N1044-2†	263m	1.0 #	J	3.0	1.0	80	20	50	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	MT28	AØ
66	2N1044-2Ø	263m	1.0 #	J	3.0	1.0	80	20	50	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	R122	
67	2N1045-2⧄	263m	1.0	#J	3.0	1.0	100	20	60	650u	1.0Ø	3.0	20	60	7.0k	250m		A△	R122	
68	2N1045-2†	263m	1.0 #	J	3.0	1.0	100	20	60	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	MT28	AØ
69	2N1045-2Ø	263m	1.0 #	J	3.0	1.0	100	20	60	.65m	1.0Ø	3.0	20	60	7.0k	.25		A△	R122	
70#	GFT3008/20	263mØ		ØJ	3.0		20	10	15	.50m	2.0Ø	.50	25	50	350k†	.40	20u	A	MD12	
71#	GFT3008/40	263mØ		ØJ	3.0		40	10	30	.50m	2.0Ø	.50	25	50	350k†	.40	20u	A	MD12	
72#	GFT3008/60	263mØ		ØJ	3.0		60	10	40	.50m	2.0Ø	.50	25	50	350k†	.40	20u	A	MD12	
73#	GFT3408/20	263mØ		ØJ	3.0		20	10	15	500u	2.0Ø	500m	40	80	400k†	400m	20u	A	MD12	
74#	GFT3408/40	263mØ		ØJ	3.0		40	10	30	.50m	2.0Ø	.50	40	80	400k†	.40	20u	A	MD12	
75#	GFT3408/60	263mØ		ØJ	3.0		60	10	40	.50m	2.0Ø	.50	40	80	400k†	.40	20u	A	MD12	
76#	GTL3	266m		ØJ	3.0		20	10	15	5.0m	2.0	500m	25	50	250			A	MD12	
77	TI158	267m	20	#J	3.0	1.0	60	30	40	650u	2.0Ø	500m	25	75	220k†	250m		A	MM8	
78	TI158A	267m	20	#J	3.0	1.0	80	30	60	650u	2.0Ø	500m	25	75	220k†	250m		A	MM8	
79	TI158AL	267m	20	#J	3.0	1.0	80	30	60	650u	2.0Ø	500m	25	75	220k†	250m		A	MM7	
80	TI158L	267m	20	#J	3.0	1.0	60	30	40	650u	2.0Ø	500m	25	75	220k†	250m		A	MM7	
81	TI539	267m	20	#J	3.5	1.0	60	28	60	500u	2.0Ø	2.0	30	75	250k†	250m		A	MT45	
82	TI540	267m	20	#J	3.5	1.0	80	28	60	1.0m	2.0Ø	2.0	45	113	250k†	250m		A	MT45	
83#	GFT30	270m		ØJ	3.0		30	20	15	1.0m	2.0	.64	20		300k†	.50		A		
84#	GFT3008/80	270mØ		ØJ	3.0		80	10	60	.50m	2.0Ø	.50	25	50	350k†	.40	20u	A		
85#	GFT3408/80	270mØ		ØJ	3.0		80	10	60	.50m	2.0Ø	.50	40	80	400k†	.40	20u	A		
86	KM7007	270m	20 Ø	#J	3.0		30		30 Ø			500m	25		6.0k	300m			MS7	CØ
87	KM7008	270m	20 Ø	#J	3.0		60		60 Ø			500m	21		6.0k	300m			MS7	CØ
88	KM7009	270m	20 Ø	#J	3.0		80		60 Ø			500m	21		6.0k	300m			MS7	CØ
89	KM7010	270m	20 Ø	#J	3.0		100		80 Ø			500m	21		6.0k	300m			MS7	CØ
90	LT11	270m	20 Ø	#J	3.0		100		80 Ø			500m	21		8.0k			A	ZA24	
91	LT12	270m	20 Ø	#J	3.0		150		100 Ø			500m	21		8.0k			A	ZA24	
92	LT13	270m	20 Ø	#J	3.0		150		120 Ø			500m	21		8.0k			A	ZA24	
93	LT14	270m	20 Ø	#J	3.0		175		150 Ø			500m	21		8.0k			A	ZA24	
94	LT15	270m	20 Ø	#J	3.0		200		150 Ø			500m	21		8.0k			A	ZA24	
95	LT5201	286m		#J	1.0		60	30	60		6.0Ø	.25	10						TO13	
96	LT5209	286m		#J	1.0		30	15	15	10m	1.0Ø	.50	10						TO13	
97	XD5081	286m		#J			35			.50m	2.0	1.5			.48k†	1.0				
98	XD5082	286m		#J			35			.50m	2.0	1.5			.48k†	1.0				
99	2N157	333m	8.5	#J	3.0		60	30		1.0m	2.0Ø	500m	20		100k†⧄	750m		A	TO3	CØ
100	2N157A	333m	8.5	#J	3.0		90	30		1.0m	2.0Ø	500m	20		100k†⧄	750m		A	TO3	CØ
101	2N352	333m		#J	2.0			20	40	5.0mØ	1.5Ø	1.0	30	140		.80		A		
102	2N528†	333m	2.5	#A	1.0	500m	40	40	40	100u	1.0Ø	500m	20			500m	500n⧄	A	TO38	A⧄
103	2N1245	333m		#J	4.0	.50	30	15	25	5.0mØ	2.0Ø	.50	50		125k†			A	TO3	
104	2N1246	333m		#J	4.0	.50	30	15	25	5.0mØ	2.0Ø	.50	150		125k†			A	TO3	
105	2N1504	333mØ	23 Ø	#J	3.0	500m	80	30	60	1.0m	2.0Ø	500m	21		4.0k	750m		A	MT12	
106#	2T3011	333m			3.0		40	12	40	2.0m	1.5Ø	1.0	70	103	7.0k†					
107#	2T3021	333mØ		#J	3.0		60	12	60	2.0m	1.5Ø	1.0	49	103	7.0k†			A		
108#	2T3031	333mØ		#J	2.0		30	12	30	3.0m	1.5Ø	1.0	20	47	7.0k†			A		
109#	2T3032	333mØ		#J	2.0		30	12	30	3.0m	1.5Ø	1.0	32	75	7.0k†			A		
110#	2T3033	333mØ		#J	2.0		30	12	30	3.0m	1.5Ø	1.0	51	121	7.0k†			A		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #200 s/a TO200 Ser.	C O A D E
1	AT201	333m	10 Ø	#J	3.0		200			200uØ								D		
2	B1914	333m	20	♦J	5.0	.50			50 Ø		2.0Ø	.60	65			.87		ADΔ	TO3	
3	CK256	333mØ	20 Ø	#J	3.0	500m	30	15	30	1.0m	2.0Ø	500m	25	32 Ø	4.0k	750m		A	MT12	
4	CK258	333mØ	20 Ø	#J	3.0	500m	60	30	60	1.0m	2.0Ø	500m	21		4.0k	750m		A	MT12	
5	CK311	333mØ	20 Ø	#J	3.0	500m	80	30	80 Ø	1.0mØ	2.0Ø	500m	21	40 Ø	4.0k	750m		A	MM3	
6	CK312	333mØ	20 Ø	#J	3.0	500m	100	30	100 Ø	1.0mØ	2.0Ø	500m	21	40 Ø	4.0k	750m		A	MM3	
7	CK313	333mØ	20 Ø	#J	3.0	500m	120	30	120 Ø	1.0mØ	2.0Ø	500m	20	36 Ø	4.0k	750m		A	MM3	
8	CK314	333mØ	20 Ø	#J	3.0	500m	150	30	150 Ø	1.0mØ	2.0Ø	500m	20	36 Ø	4.0k	750m		A	MM3	
9	CK315	333mØ	20 Ø	#J	3.0	500m	200	30		5.0m	2.0Ø	500m	21		4.0k	750m		A	MM3	
10	CK411	333mØ	20 Ø	#J	3.0	500m	80	30	80 Ø	1.0mØ	2.0Ø	500m	21	40 Ø	4.0k	750m		A	MT12	
11	CK412	333mØ	20 Ø	#J	3.0	500m	100	30	100 Ø	1.0mØ	2.0Ø	500m	21	40 Ø	4.0k	750m		A	MT12	
12	CK413	333mØ		#J	3.0	.50	120	30	120 Ø	1.0mØ	2.0Ø	.50	21	36 Ø	4.0k	.75		A	MT12	
13	CK414	333mØ		#J	3.0	.50	150	30	150 Ø	1.0mØ	2.0Ø	.50	21	36 Ø	4.0k	.75		A	MT12	
14	CK415	333mØ		#J	3.0	.50	200	30		5.0m	2.0Ø	.50	21		4.0k	.75		A	MT12	
15#	GTL1	333m		#J	3.0		30			30m								A		
16	KL8503	333m	1.7	♦A	3.0	2.0	60	30	40	2.0m	2.0Ø	500m	40	100	14k	266m		Δ	TO8	A
17	KL8504	333m	1.7	♦A	3.0	2.0	60	30	40	2.0m	2.0Ø	500m	75	200	12k	266m		Δ	TO8	A
18	KL8505	333m	1.7	♦A	3.0	2.0	100	30	65	2.0m	2.0Ø	500m	40	100	14k	266m		Δ	TO8	A
19	KL8506	333m	1.7	♦A	3.0	2.0	100	30	65	2.0m	2.0Ø	500m	75	200	12k	266m		Δ	TO8	A
20	KR6003	333m	28	♦	3.0	2.0	60	30	50 Ø	2.0m	2.0Ø	500m	40	100		260m		A	TO66	
21	KR6004	333m	28	♦	3.0	2.0	60	30	50 Ø	2.0m	2.0Ø	500m	75	200		260m		A	TO66	
22	KR6005	333m	28	♦	3.0	2.0	100	30	80 Ø	2.0m	2.0Ø	500m	40	100		260m		A	TO66	
23	KR6006	333m	28	♦	3.0	2.0	100	30	80 Ø	2.0m	2.0Ø	500m	75	200		260m		A	TO66	
24	LT51	333m		#J	3.0	.50	60	30	60	1.0m	2.0Ø	.50	20		100kt	.75				
25	LT55	333m		#J	3.0	.50	60	15	60	1.0m	2.0Ø	.50	20		100kt	1.0				
26	LT5021	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	20		100kt	1.0			TO10	FØ
27	LT5022	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	20		100kt	1.0			TO3	CØ
28	LT5023	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	40		100kt	1.0			TO13	FØ
29	LT5024	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	40		100kt	1.0			TO10	FØ
30	LT5025	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	40		100kt	1.0			TO3	CØ
31	LT5026	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	60		100kt	1.0			TO13	FØ
32	LT5027	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	60		100kt	1.0			TO10	FØ
33	LT5028	333m		#J	3.0	.50	30	15	30	1.5m	2.0Ø	.50	60		100kt	1.0			TO3	CØ
34	LT5029	333m		#J	3.0	.50	60	15	60	1.5m	2.0Ø	.50	40		100kt	1.0			TO13	FØ
35	LT5030	333m		#J	3.0	.50	60	15	60	1.5m	2.0Ø	.50	40		100kt				TO10	FØ
36	LT5031	333m		#J	3.0	.50	60	15	60	1.5m	2.0Ø	.50	40		100kt	1.0			TO3	CØ
37	LT5032	333m		#J	3.0	.50	60	15	60	1.5m	2.0Ø	.50	60		100kt	1.0			TO13	FØ
38	LT5033	333m		#J	3.0	.50	60	15	60	1.5m	2.0Ø	.50	60		100kt	1.0			TO10	FØ
39	LT5034	333m		#J	3.0	.50	60	15	60	1.5m	2.0Ø	.50	60		100kt	1.0			TO3	CØ
40	LT5035	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	20		100kt	1.0			TO13	FØ
41	LT5036	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	20		100kt	1.0			TO10	FØ
42	LT5037	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	40		100kt	1.0			TO13	FØ
43	LT5038	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	40		100kt	1.0			TO10	FØ
44	LT5039	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	40		100kt	1.0			TO3	CØ
45	LT5040	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	60		100kt	1.0			TO13	FØ
46	LT5041	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	60		100kt	1.0			TO10	FØ
47	LT5042	333m		#J	3.0	.50	100	15	90	2.0m	2.0Ø	.50	60		100kt	1.0			TO3	CØ
48	LT5043	333m		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	20		100kt	1.0			TO13	FØ
49	LT5044	333m		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	20		100kt	1.0			TO10	FØ
50	LT5045	333m		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	20		100kt	1.0			TO3	CØ
51	LT5046	333mØ		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	40		100kt	1.0			TO13	FØ
52	LT5047	333mØ		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	40		100kt	1.0			TO10	FØ
53	LT5048	333mØ		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	40		100kt	1.0			TO3	CØ
54	LT5049	333m		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	60		100kt	1.0			TO13	FØ
55	LT5050	333m		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	60		100kt	1.0			TO10	FØ
56	LT5051	333m		#J	3.0	.50	120	15	100	2.5m	2.0Ø	.50	60		100kt	1.0			TO3	CØ
57	LT5152	333m		#J	3.0		30	15	30	1.5m	2.0Ø	.50	20		100kt	1.0			TO13	FØ
58	LT5153	333m		#J	3.0		60	15	60	1.5m	2.0Ø	.50	20		100kt	1.0			TO13	FØ
59	LT5515	333m		#J	3.0		60	15	60	1.5m	2.0Ø	.50	20		100kt	1.0				
60	TI366	333m			3.0		60		45	.10mØ	1.0Ø	1.0	50			.10		A	TO3	
61	TI367	333m			3.0		60		40	.20mØ	1.0	.50	30			.15		A	TO3	
62	TI368	333m			3.0		45		25	.10mØ	1.0	1.0	50			.10		A	TO3	
63	TI369	333m			3.0		45		23	.20mØ	1.0	.50	30			.15		A	TO3	
64	TI370	333m			3.0		30		15	.20mØ	1.0	.50	30			.15		A	TO3	
65	TS176	333m		#S	2.0		30			1.0mØ	12Ø	.50				.75				
66#	2G240	376mØ		*J	3.0		80	1.0		1.0mØ	2.0Ø	500m	40	70 Ø	15Mt	1.3	700n	D	MD6	
67	KJ2000	384m	40 Ø	#J	15		80		50			12	10		6.0k			A	TO10	FØ
68	KJ2001	384m	40 Ø	#J	15		100		60			12	10		6.0k			A	TO10	FØ
69	KJ2002	384m	40 Ø	#J	15		80		50			2.0	80	240	6.0k			A	TO10	FØ
70	KJ2003	384m	40 Ø	#J	15		100		60			2.0	80	240	6.0k			A	TO10	FØ
71	KM7000	384m	28 Ø	#J	3.0		60		35 Ø			500m	60		10k				MS7	CØ
72	KM7001	384m	28 Ø	#J	3.0		100		75 Ø			500m	60	150	90k				MS7	CØ
73	KM7002	384m	28 Ø	#J	3.0		80		65 Ø			500m	50			210m			MS7	CØ
74	2N353	400m		#J	2.0			20	40	5.0m	1.5Ø	1.0	40	150		.80		A		
75#	2SB25	400m		ØJ	1.5		60	12		2.0m	1.5	1.0	34	110	250kt			A	TO3	
76#	2SB26	400m		ØJ	1.5		25	12		16mØ	1.5	1.0	34	110	250kt			A	TO3	
77#	2SB26A	400m	20		3.0		45	12	45 §	16mØ	1.5Ø	1.0	34	115				A	TO3	
78#	2SB107A	400m		ØJ	2.0		60	15		.50m	2.0Ø	1.0	20	120	400kt			A	TO3	
79#	2SB122	400m		ØJ	1.5		80	40		2.0m	1.5	1.0	34	110	250kt	.15		A	TO3	
80#	2SB215	400mØ		ØJ	3.0		100	20		.50mØ	1.5Ø	1.0	20	200		.10		A	TO3	
81#	2SB216	400m		ØJ	1.5		60	10		.50mØ	1.5	.20	25	200				A	TO3	
82#	2SB217	400m		ØJ	1.5		20	10		.50mØ	1.5	.20	25	200				A	TO3	
83#	2SB254	400mØ		ØJ	.60		35	10		.50mØ	1.5	.20	50	250				A	MD10	
84	B10475	400m	40 Ø	♦J	10	2.0	100		150 Ø	2.0m						230m	2.0u#	DAΔ	TO3	CØ
85	CST1773At	400m	28 Ø	#J	3.0	2.0	40	20	35 Ø	5.0m	2.0Ø	500m	25	45 Ø	15k	500m	4.0u	AΔ	MS7	
86	CST1773Bt	400m	28 Ø	#J	3.0	2.0	80	30	60 Ø	5.0m	2.0Ø	500m	25	45 Ø	15k	500m	4.0u	AΔ	MS7	
87#	GFT4012	400m			4.0		40	35		.15mØ	2.0Ø	.25	50 Ø			.50				
88#	GFT4012/30	400mØ		ØJ	4.0		30	20	15	1.0m	2.0Ø	1.0	20	70	300kt	.80	30u	A		
89#	GFT4012/60	400mØ		ØJ	4.0		60	20	30	1.0m	2.0Ø	1.0	20	70	300kt	.80	30u	A		
90#	GFT4412/30	400mØ		ØJ	4.0		30	20	15	1.0m	2.0Ø	1.0	40	80	350kt	.80	30u	A		
91#	GFT4412/60	400mØ		ØJ	4.0		60	20	30	1.0m	2.0Ø	1.0	40		350kt	.80	30u	A		
92	KM7011	400m	30 Ø	#J	5.0		30		30 Ø			5.0	50		8.0k	100m			MS7	CØ
93	KM7012	400m	30 Ø	#J	5.0		60		50 Ø			5.0	50		8.0k	100m			MS7	CØ
94	KM7013	400m	30 Ø	#J	5.0		80		60 Ø			5.0	50		8.0k	100m			MS7	CØ
95	KM7014	400m	30 Ø	#J	5.0		100		80 Ø			5.0	50		8.0k	100m			MS7	CØ
96	KM7015	400m	30 Ø	#J	5.0		60		50 Ø			5.0	35		10k	100m			MS7	CØ
97	KM7016	400m	30 Ø	#J	5.0		80		60 Ø			5.0	35		10k	100m			MS7	CØ
98	KM7017	400m	30 Ø	#J	5.0		100		80 Ø			5.0	25		10k	100m			MS7	CØ
99#	NKT415	400mØ	20	ØJ	3.0		30				1.5	1.0	30	90	250kt				TO3	
100#	NKT416	400mØ	20	ØJ	3.0		60				1.5	1.0	30	90					TO3	
101#	TK400A	400m		#	10	2.0	30	12	15	.10mØ	1.5Ø	10	7.5		250kt			A	TO3	
102#	TK401A	400m		#	10	2.0	80	12	40	.10mØ	1.5Ø	10	9.5		250kt			A	TO3	
103#	TK402A	400m		#	10	2.0	80	12	40	.10mØ	1.5Ø	10	20		250kt			A	TO3	
104#	TK403A	400m		#	7.5	2.0	100	12	40	.10mØ	1.5Ø	7.5	7.5		250kt			A	TO3	
105	X110	400m		#J	5.0				40	1.5mØ		4.0								
106	2N57	434m	20 Ø	♦C	800m		60		30				14							
107	H5B2N3	454mØ		#J	3.5 Ø	500m	110	28	60	5.0m	2.0Ø	2.0	20	50	200k§Δ	300m	300n	A	TO10	
108	2N1261A	455m		#J	3.5 Ø	.50	80	28	45	2.0m	2.0Ø	2.0	20	50	200kt	.30		A		
109	2N1262A	455m		#J	3.5 Ø	.50	80	28	45	2.0m	2.0Ø	2.0	30	75	200kt	.30		A		
110	2N1263A	455m		#J	3.5 Ø	.50	80	28	45	2.0m	2.0Ø	2.0	45	113	200kt	.30		A		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	B177	455mØ		#J	3.0				30			.50	150 Ø						TO3	
2	B178	455mØ		#J	3.0				30			.50	40 Ø						TO3	
3	B179	455mØ		#J	3.0				40			.50	25 Ø						TO3	
4	H5	455m		#J	3.5	.50	80	28		2.0mØ	2.0Ø	2.0	21	51		.30		A		
5	H6	455m		#J	3.5	.50	80	28		2.0mØ	2.0Ø	2.0	31	75		.30		A		
6	H7	455m		#J	3.5	.50	80	28		2.0mØ	2.0Ø	2.0	46	113		.30		A		
7	H45	455m		#J	3.5	.50	80	28		2.0mØ	2.0Ø	2.0	14	34	240k†	.30	55u	A		
8	2N66	500m		ØJ	.80	.80	60	60	40	1.0m	4.5	.10	25		200k†	2.0		A		
9	2N234	500m	25 Ø	#J	3.0	150m	30		25 §	1.0mØ			25		8.0k					
10	2N235	500m		#J	3.0	.15			40		5.0Ø	1.0	35 Ø			.80				
11	2N236	500m	25	#J	3.0	150m			40	1.0mØ	5.0Ø	1.0	55 Ø			333m		Ge	TO3	CØ
12	2N285	500m	25 Ø	#J	3.0	150m			40	1.0mØ	5.0Ø	1.0 Ø	100 Ø			500m		Δ	TO3	CØ
13	2N386	500m§Ø		#J	3.0		60		60	.50mØ	1.5	2.5	20		700k†			AΔ	TO27	
14	2N387	500m§Ø		#J	3.0		80		80	5.0m	1.5	2.5	20		600k†			AΔ	TO27	
15	2N421	500m		#J	5.0	.50	65		45	1.5mØ	2.0Ø	4.0	40	50 Ø	400k†	.50	15u	Δ		
16	2N463†	500m		#	5.0	1.0	60	50	60	300uØ	2.0Ø	2.0	20	60	4.0kΔ	80m	4.6u	A	TO32	AØ
17	2N1433	500m		#J	3.5	.50	80	28	50	2.0m	2.0Ø	2.0	20	50	200k†	.75		A	TO10	
18	2N1434	500m		#J	3.5	.50	80	28	50	2.0m	2.0Ø	2.0	45	115	200k†	.50		A	TO10	
19	2N1435	500m		#J	3.5	.50	80	28	50	2.0m	2.0Ø	2.0	30	75	200k†	.30		A	TO10	
20#	2SB64	500m	25 Ø	ØJ	6.0		100	1.0	100 §	330uØ	1.5Ø	1.0	34	160	1.0M†			D	TO3	
21#	2SB69	500m	25 Ø	ØJ	6.0		60	1.0	60 §	330uØ	1.5Ø	1.0	34	160	1.0M†			D	TO3	
22#	2SB123	500m		ØJ	5.0		40	12		2.0m	1.5	5.0	50 Ø		250k†	.09		A	TO3	
23#	2SB137	500m	30 Ø	#J	5.0		30	15	25 §	500uØ	1.5Ø	1.0	30	250				A	TO3	CØ
24#	2SB138	500m	30 Ø	#J	5.0		60	30	35 §	500uØ	1.5Ø	1.0	30	250				A	TO3	CØ
25#	2SB138A	500m	30 Ø	#J	5.0		80	30	40 §	500uØ	1.5Ø	1.0	30	250				A	TO3	CØ
26#	2SB138B	500m	30 Ø	#J	5.0		80	30	60 §	500uØ	1.5Ø	1.0	30	250				A	TO3	CØ
27#	2SB149	500m		ØJ	8.0		40	30		10m	1.5	5.0	60 Ø		250k†	50m		A	TO3	
28#	2SB231	500mØ		ØJ	6.0	1.0	120	1.0	120	5.0m	1.5	5.0	25	200	1.0M†	.06	1.2u	D	TO3	
29#	2SB342	500m	30	ØJ	6.0		120	1.0	120 §	5.0m	1.5Ø	5.0	25	250	1.0M†	.06 ▼		D	TO3	
30#	2SB343	500m	30	ØJ	6.0		150	1.0	150 §	5.0m	1.5Ø	5.0	25	250	1.0M†	.06 ▼		D	TO3	
31#	2SB375	500m	30	ØJ	9.0		150	1.0	150 §	5.0m	1.5Ø	8.0	25	250	1.0M†	.06 ▼		D	TO3	
32#	2SB390	500m	30	ØJ	6.0		80	1.0	80 §	5.0m	1.5Ø	5.0	25	250	1.0M†	.06 ▼		D	TO3	
33#	2SB391	500m	30	ØJ	6.0		50	1.0	50 §	5.0m	1.5Ø	3.0	25	350	1.0M†	.06 ▼		D	TO3	
34#	2SB424	500m	30 Ø	#J	3.0		80	40	80	160uØ	1.5Ø	1.0	34	80	300k†			A	TO3	
35#	2SB425	500m	30 Ø	#J	7.0		60	12	60 §	160uØ	1.5Ø	1.0	34	115	400k†			A	TO3	
36#	2SB464	500m	30 Ø	#J	6.0	6.0 Ø	100	1.0	100 §	330uØ	1.5Ø	1.0 Ø	30	170	1.6M†	60m		D	TO3	CØ
37#	2SB465	500m	30 Ø	#J	6.0	6.0 Ø	60	1.0	60 §	330uØ	1.5Ø	1.0 Ø	30	170	1.6M†	60m		D	TO3	CØ
38#	147T1	500m		#J	3.0		60	30	40	1.0m	2.0	2.0	20	150	200k†	130m			TO3	
39	A1392	500m	10	#J	10		155	4.0	150	60m†	1.0Ø	10 Δ	16					AD	TO3	
40#	AD103	500m	23 Ø	#J	15		50	10	32	10m	.50Ø	500m	30	75 Ø	200k†	30m	12u	AΔ		
41#	AD104	500m	23 Ø	#J	10		65	20	45	10m	.50Ø	500m	28	70 Ø	200k†	50m	12u	AΔ		
42#	AD105	500m		#J	8.0		85		60	10m	.50Ø	.50	25	40 Ø						
43#	AD166	500m	27 Ø	#J	5.0	1.0	60	1.0	40	1.0mØ	2.0Ø	1.0	40	250	3.0M§				TO3	
44#	AD167	500m	27 Ø	#J	5.0	1.0	75	1.5	50	1.0mØ	2.0Ø	1.0	100	250	4.0M§				TO3	
45#	AU105†	500m	27 Ø	#J	10	3.0	130	1.0	60	500uØ	2.0Ø	5.0	50	200	5.0M§		900n		TO3	
46	B113	500m		#J	5.0		80					4.0								
47	B114	500m		#J	3.0				40			.75								
48	B121	500m		#J	3.0				30			.50								
49	B1017	500mØ		#J	3.0				20				25 Ø							
50	B1085	500mØ		#	10		120	1.5	120	10mØ	2.0Ø	5.0	40 Ø		1.5M†	.15		D	TO3	A
51	B10064	500m	10	#J	4.0	1.0			3.0	.50m	2.0Ø	1.0	15			.12		DΔ	TO3	
52	B10069	500m	10	#J	4.0	1.0			3.0	.50m	2.0Ø	1.0	15			.12		DΔ	TO41	
53	B10474	500m	40 Ø	♦J	10		60		40	2.0m	10Ø	100m	50	400				DAΔ	TO3	CØ
54#	CTP1104	500m		#J	3.0		40	10	30	2.0m	2.0Ø	2.0	10		4.0kΔ			A	TO3	
55#	GET571	500m		#J	12	2.0	16	6.0	16	2.0m	.50	12	8.0	25	350k†	.40		A	MD2	
56#	GET572	500m		#J	12	8.0	32	12	32	2.0m	.50	12	8.0	25	350k†	.40		A	MD2	
57#	GET573	500m		#J	12	2.0	64	12	40	2.0m	.50	12	8.0	25	350k†	.40		A	MD2	
58#	GET574	500mØ		#J	12	2.0	32	12	32	2.0m	2.0	1.0	40 Ø		350k†	.40		A	MD2	
59#	GET581	500mØ		#J	6.0		80	40	60		1.0	6.0	15	30				A	TO3	
60#	GET582	500mØ		#J	6.0		80	40	32		1.0	6.0	20	65				A	TO3	
61#	GET583	500mØ		#J	6.0		60	20	32		1.0	6.0	20	45				A	TO3	
62#	GET584	500mØ		#J	6.0		60	20	32		1.0	6.0	35	80				A	TO3	
63#	GET585	500mØ		#J	4.0		40	10	40		1.0	4.0	12 Ø					A	TO13	
64#	GET586	500mØ		#J	3.0		32	10			1.0	3.0	15	50				A	TO13	
65	KL8010	500m	1.7	♦A	10	3.0	60	30	35	2.0m	2.0Ø	10	30	100	800k§	100m		Δ	TO8	A
66	KL8011	500m	1.7	♦A	10	3.0	60	30	35	2.0m	2.0Ø	10	60	200	800k§	83m		Δ	TO8	A
67	KL8012	500m	1.7	♦A	10	3.0	100	30	50	2.0m	2.0Ø	10	30	100	800k§	100m		Δ	TO8	A
68	KL8013	500m	1.7	♦A	10	3.0	100	30	50	2.0m	2.0Ø	10	60	200	800k§	83m		Δ	TO8	A
69	KR6500	500m	42	♦	10	3.0	60	30	50 Ø	2.0m	2.0Ø	5.0	50			100m		A	TO66	
70	KR6501	500m	42	♦	10	3.0	60	30	50 Ø	2.0m	2.0Ø	5.0	100			80m		A	TO66	
71	KR6502	500m	42	♦	10	3.0	100	30	65 Ø	2.0m	2.0Ø	5.0	50			100m		A	TO66	
72	KR6503	500m	42	♦	10	3.0	100	30	65 Ø	2.0m	2.0Ø	5.0	100			80m		A	TO66	
73	LT5052	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	30		100k†	1.0			TO13	FØ
74	LT5053	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	30		100k†	1.0			TO10	FØ
75	LT5054	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	30		100k†	1.0			TO3	CØ
76	LT5055	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	60		100k†	1.0			TO13	FØ
77	LT5056	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	60		100k†	1.0			TO10	FØ
78	LT5057	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	60		100k†	1.0			TO3	CØ
79	LT5058	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	100		100k†	1.0			TO13	FØ
80	LT5059	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	100		100k†	1.0			TO10	FØ
81	LT5060	500m		#J	4.5	.60	30	15	30	2.0m	2.0Ø	.75	100		100k†	1.0			TO3	CØ
82	LT5061	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	30		100k†	1.0			TO13	FØ
83	LT5062	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	30		100k†	1.0			TO10	FØ
84	LT5063	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	30		100k†	1.0			TO3	CØ
85	LT5064	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	60		100k†	1.0			TO13	FØ
86	LT5065	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	60		100k†	1.0			TO10	FØ
87	LT5066	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	60		100k†	1.0			TO3	CØ
88	LT5067	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	100		100k†	1.0			TO13	FØ
89	LT5068	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	100		100k†	1.0			TO10	FØ
90	LT5069	500m		#J	4.5	.60	60	15	60	2.0m	2.0Ø	.75	100		100k†	1.0			TO3	CØ
91	LT5070	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	30		100k†	1.0			TO13	FØ
92	LT5071	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	30		100k†	1.0			TO10	FØ
93	LT5072	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	30		100k†	1.0			TO3	CØ
94	LT5073	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	60		100k†	1.0			TO13	FØ
95	LT5074	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	60		100k†	1.0			TO10	FØ
96	LT5075	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	60		100k†	1.0			TO3	CØ
97	LT5076	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	100		100k†	1.0			TO13	FØ
98	LT5077	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	100		100k†	1.0			TO10	FØ
99	LT5078	500m		#J	4.5	.60	80	15	75	2.5m	2.0Ø	.75	100		100k†	1.0			TO3	CØ
100	LT5079	500m		#J	4.5	.60	100	15	90	2.5m	2.0Ø	.75	30		100k†	1.0			TO13	FØ
101	LT5080	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	30		100k†	1.0			TO10	FØ
102	LT5081	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	30		100k†	1.0			TO3	CØ
103	LT5082	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	60		100k†	1.0			TO13	FØ
104	LT5083	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	60		100k†	1.0			TO10	FØ
105	LT5084	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	60		100k†	1.0			TO3	CØ
106	LT5085	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	100		100k†	1.0			TO13	FØ
107	LT5086	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	100		100k†	1.0			TO10	FØ
108	LT5087	500m		#J	4.5	.60	100	15	90	3.0m	2.0Ø	.75	100		100k†	1.0			TO3	CØ
109	LT5157	500m		#J	4.5		100	15	90	3.0m	2.0Ø	.75	30		100k†	1.0				
110	LT5158	500m		#J	4.5		100	15	90	3.0m	2.0Ø	.75	30		100k†	1.0				

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	C O E A D E
1	LT5159	500m		#J	4.5		100	15	90	3.0m	2.0Ø	.75	30		100kt	1.0				
2#	SFT150	500mØ		#J	3.0	.50	80	40	40	1.0m	2.5Ø	2.0			300kt	.17		A		
3#	SFT190	500m	30 Ø	#S	3.0 †			15†	65 §*	2.0mØ	2.0Ø	1.0	45	70 Ø	400k§	330m			TO3	Ø
4#	SFT192	500m	30 Ø	#J	3.0			15	45	2.0mØ	2.0Ø	500m	30	50 Ø	400k§	500m		A	TO3	Ø
5#	SFT212	500m	30 Ø	#S	3.0	500m	30	7.5		1.0m	2.0Ø	2.0	20	150	200kΔ†			A	TO3	CØ
6#	TF90/30	500m		#J		15	32	10	32		.50Ø	5.0	50 Ø							
7#	TF90/60	500m		ØJ	15		64	20	64		.50Ø	5.0								
8#	V15/10DP	500m		ØJ	3.0		15	5.0	5.0	.10mØ	1.5	.20	10	20	200kt			A	TO3	
9#	V15/10P	500mØ		ØJ	3.0		15	5.0	5.0	.10mØ	1.5	.02	10	20	200kt			A		
10#	V15/20DP	500m		ØJ	3.0		15	5.0	5.0	.10mØ	1.5	.20	20	30	200kt			A	TO3	
11#	V15/20P	500mØ		ØJ	3.0		15	5.0	5.0	.10mØ	1.5	.20	20	30	200kt			A		
12#	V15/30DP	500m		ØJ	3.0		15	5.0	5.0	.10mØ	1.5	.20	30	30	200kt			A	TO3	
13#	V15/30P	500mØ		ØJ	3.0		30	5.0	5.0	.10mØ	1.5	.20	30		200kt			A		
14#	V30/10DP	500m		ØJ	3.0		30	10	10	.10mØ	1.5	.20	10	20	200kt			A	TO3	
15#	V30/10P	500mØ		ØJ	3.0		30	10	10	.10mØ	1.5	.20	10	20	200kt			A		
16#	V30/20DP	500m		ØJ	3.0		30	10	10	.10mØ	1.5	.20	20	30	200kt			A	TO3	
17#	V30/20P	500mØ		ØJ	3.0		30	10	10	.10mØ	1.5	.20	20	30	300kt			A		
18#	V30/30DP	500m		ØJ	3.0		30	10	10	.10mØ	1.5	.20	20		200kt			A	TO3	
19#	V30/30P	500mØ		ØJ	3.0		30	10	10	.10mØ	1.5	.20	30		200kt			A		
20#	V60/10DP	500m		ØJ	3.0		60	20	20	.10mØ	1.5	.20	10	20	200kt			A	TO3	
21#	V60/10P	500mØ		ØJ	3.0		60	20	20	.10mØ	1.5	.20	10	20	200kt			A		
22#	V60/20DP	500m		ØJ	3.0		60	20	20	.10mØ	1.5	.20	20	30	200kt			A	TO3	
23#	V60/20P	500mØ		Ø	3.0		60	20	20	.10mØ	1.5	.20	20	30	200kt			A		
24#	V60/30DP	500m		ØJ	3.0		60	20	20	.10mØ	1.5	.20	30	38 Ø	200kt			A	TO3	
25#	V60/30P	500mØ		ØJ	3.0		60	20	20	.10mØ	1.5	.20	30	38 Ø	200kt			A		
26	X113	500m		#J	4.0		70					4.0								
27	X133	500m		#J	4.0				60			4.0	20 Ø							
28#	2SB468A	526m	32 Ø	#J	10	10 Ø	270	1.5	90	500uØ	1.5Ø	4.0 Ø	14	130			1.5u#	D	TO3	AØ
29#	2SB119	588mØ		ØJ	3.0	.50	32	10	16	.20mØ	1.0Ø	3.0	6.0		200kt			A		
30#	2SB119A	588mØ		ØJ	3.0	.50	60	10	30	.20mØ	1.0Ø	3.0	6.0		200kt			A		
31	2N1014	666mØ		#C	5.0	2.0	100	60	65	500uØ	1.5Ø	1.0			6.5kt		90u	A	TO3	
32	2N2869/2N301	666m#	30 Ø	#J	10	3.0	60	10	50		2.0Ø	1.0	50	165	4.0k	250m		A	TO3	CØ
33	2N2870/2N301A	666m#	30 Ø	#J	10	3.0	80	10	50		2.0Ø	1.0	50	165	4.0k	100m		A	TO3	
34#	2S41	666m	8.0	#S	1.2	1.2 Ø	40	12		2.0mØ			62 Ø					A		
35#	2SB129A	666m		#J	6.0		120	60	60	220uØ	1.0Ø	6.0	30	80				A	TO3	
36#	2SB312	666m	43 Ø	#J	8.0		140	1.0		220uØ	1.0Ø	8.0	14	100		110m		D	TO3	
37#	2SB313	666m	43 Ø	#J	10		180	1.0		220uØ	1.0Ø	8.0	14	100		110m		D	TO3	
38#	2SB471A	666m	30 Ø	#J	10	3.0	60	10	45 §	500uØ	2.0Ø	1.0	50	100	300kt			A	MD6	
39#	2SB471B	666m	30 Ø	#J	10	3.0	60	10	45 §	500uØ	2.0Ø	1.0	80	165	300kt			A	MD6	
40#	2SB472A	666m	30 Ø	#J	10	3.0	80	10	50 §	500uØ	2.0Ø	1.0	50	100	300kt			A	MD6	
41#	2SB472B	666m	30 Ø	#J	10	3.0	80	10	50 §	500uØ	2.0Ø	1.0	80	165	300kt			A	MD6	
42#	146T1	666m		#J	3.0		40	20	30	1.0m	2.0	2.0	20	150	200kt	130m			TO3	
43#	AD145	666m	30 Ø	#J	10	3.0	15	10		160uØ	2.0Ø	1.0	30	170	450k§			A	TO3	
44#	AD153	666m	45 Ø	#S	3.0	500m	40	20	40 §		2.0Ø	2.0	30	100	500k§			A	TO3	
45#	AD163	666m	30 Ø	#J	3.0		100	20	80	150uØ	1.0Ø	1.0	13 †	60 †	350k§				TO3	
46#	ADY25	666m	40 Ø	#J	7.5	2.0	100	12	60	110uØ	0.0	1.0	150 Ø		250kt			A	TO3	
47#	AL101	666m	30	†J	10	3.0	60	1.0	40	500uØ	2.0Ø	1.0 Δ	90 Ø		7.5M	1.0	100n	D△	TO3	
48#	AT450%	666m*	23 Ø	#J	10	10 Ø	430	2.0	160	5.0m	1.0Ø	6.0	15			250m		D△	TO3	
49#	AT1138	666m	44 Ø	#J	10	1.0	40	20	35	2.0mØ	1.0Ø	1.0	66	200	300k§	1.0		A	TO3	CØ
50#	AT1138A	666m	44 Ø	#J	10	1.0	60	20	45	2.0mØ	1.0Ø	1.0	66	200	300k§	1.0		A	TO3	CØ
51#	AT1138B	666m	44 Ø	#J	10	1.0	80	20	55	2.0mØ	1.0Ø	1.0	66	200	300k§	1.0		A	TO3	CØ
52#	AT1833	666m	44 Ø	#J	10	1.0	40	20	35	2.0mØ	1.0Ø	1.0	45	95	400kt			A	TO3	CØ
53#	AT1834	666m	44 Ø	#J	10	1.0	40	20	35	2.0mØ	1.0Ø	1.0	75	165	400kt			A	TO3	CØ
54#	AUY28	666m	30 Ø	#J	6.0	1.5	90	24	65	1.5m	1.5Ø	5.0	20	33 Ø	80k		10u	A	TO3	
55#	AUY30	666m	45 Ø	#S	6.0	1.0	80	40	60	3.0m	2.0Ø	5.0	20	30 Ø	300kt	70m	6.0u	AΔ	TO3	
56#	AUY31	666m	45 Ø	#S	6.0	1.0	60	30	40	3.0m	2.0Ø	5.0	20	30 Ø	300kt	70m	6.0u	AΔ	TO3	
57#	AUY32	666m	45 Ø	#S	3.0	500m	80	40	60	1.0m	2.0Ø	2.0	20	150	200kt△	130m		A	TO3	
58#	AUY33	666m	45 Ø	#S	3.0	500m	60	30	40	1.0m	2.0Ø	2.0	20	150	200kt△	130m		A	TO3	
59	B1913	666m	5.0	♦J	3.0	300m			50 Ø		2.0Ø	600m	65			870m		AD△	TO37	
60	B10142	666m	30 Ø	♦J	10				325 Ø	1.0mØ	2.0Ø	6.0	20			80m	1.0u#	D△	TO3Ø	
61	B10142A	666m	30 Ø	♦J	10				290 Ø	1.0mØ	2.0Ø	6.0	20			80m	1.0u#	D△	TO3Ø	
62	B10142B	666m	30 Ø	♦J	10				225 Ø	1.0mØ	2.0Ø	6.0	20			80m	1.0u#	D△	TO3Ø	
63	B10143	666m	40 Ø	♦J	15				290 Ø	1.0mØ	2.0Ø	9.0	25			80m	1.2u#	D△	TO3Ø	
64	B10143A	666m	40 Ø	♦J	15				225 Ø	1.0mØ	2.0Ø	9.0	25			80m	1.2u#	D△	TO3Ø	
65	B10143B	666m	40 Ø	♦J	15				165 Ø	1.0mØ	2.0Ø	9.0	25			80m	1.2u#	D△	TO3Ø	
66	B10912	666mØ	30 Ø	#J	3.0		35		40 §	2.0m	2.0Ø	1.0	50						TO3	CØ
67	B10913	666mØ	30 Ø	#J	3.0		35		40 §	2.0m	2.0Ø	1.0	100						TO3	CØ
68	CDT1309	666m	45 Ø	#J	3.0	2.0	40	10	35 Ø	2.0m						750m			TO3	A
69	CDT1315†	666mØ	45 Ø	#J	8.0	300m	100		75	20m	2.0Ø	2.0	60	150				AΔ	TO3	A
70	CTP1111	666m	45 Ø	#J	3.0	2.0	80	45	60 §	5.0m	2.0Ø	2.0	20 †	7.0	1.0k			AΔ	TO3	
71#	NKT450	666m	43 Ø	#J	3.0	500m	36	10	36	100uØ	0.0Ø	1.0	30						MD17d	CØ
72#	SFT211	666m	45 Ø	#C	6.0	1.0	80	40	80 §	2.0m	2.0Ø	2.0	30	100	8.0k	260m		A	TO3	
73#	SFT213	666m	45 Ø	#S	3.0	500m	40	20	30	1.0m	2.0Ø	2.0	20	150	200kt	130m		A	TO3	CØ
74#	SFT214	666m	45 Ø	#S	3.0	500m	60	30	40	1.0m	2.0Ø	2.0	20	150	200kt△	130m		A	TO3	CØ
75#	SFT238	666m	45 Ø	#S	6.0	1.0	40	20	30	3.0m	2.0Ø	5.0	20	30 Ø	300kt	70m	6.0u	AΔ	TO3	CØ
76#	SFT239	666m	45 Ø	#S	6.0	1.0	60	30	40	3.0m	2.0Ø	5.0	20	30 Ø	300kt	70m	6.0u	AΔ	TO3	CØ
77#	SFT240	666m	45 Ø	#S	10	2.0	100	40	60	3.0m	2.0Ø	5.0	20	70	400k	40m	4.5u	AΔ	TO3	CØ
78#	SFT250	666m	45 Ø	#S	3.0	500m	80	40	60	1.0m	2.0Ø	2.0	20	150	200kt	130m		A	TO3	CØ
79#	XC155	666mØ		#S	5.0	2.0	80	60	50	500uØ	1.5Ø	1.0			650kt		90u	AΔ		
80#	XC156	666mØ		#S	5.0	2.0	100	60	65	500uØ	1.5Ø	1.0			6.5kt		90u	A		
81	2N1453	667mØ			5.0	1.0	30	15	25	2.0m	2.0Ø	1.0	40	90		.35		A	TO13	
82	2N1454	667mØ		#	5.0	1.0	30	15	25	2.0m	2.0Ø	1.0	70	150		.35		A	TO13	
83	2N1455	667mØ		#	5.0	1.0	60	15	50	2.0m	2.0Ø	1.0	40	90		.35		A	TO13	
84	2N1456	667mØ		#	5.0	1.0	60	15	50	2.0m	2.0Ø	1.0	70	150		.35		A	TO13	
85	2N1457	667mØ		#	5.0	1.0	80	15	65	2.5m	2.0Ø	1.0	40	90		.35		A	TO13	
86	2N1458	667mØ		#	5.0	1.0	80	15	65	2.5m	2.0Ø	1.0	70	150		.35		A	TO13	
87	2N1461	667mØ		#	5.0	1.0	30	15	25	2.0m	2.0Ø	1.0	40	90		.35		A	TO10	
88	2N1462	667mØ		#	5.0	1.0	30	15	25	2.0m	2.0Ø	1.0	70	150		.35		A	TO10	
89	2N1463	667mØ		#	5.0	1.0	60	15	50	2.0m	2.0Ø	1.0	40	90		.35		A	TO10	
90	2N1464	667mØ		#	5.0	1.0	60	15	50	2.0m	2.0Ø	1.0	70	150		.35		A	TO10	
91#	2SB232	667m		#J	6.0		130	.50		.22mØ	1.0Ø	.20	20					D	TO3	
92#	2SB233	667m		#J	6.0		130	.50		.22mØ	1.0Ø	.20	100					D	TO3	
93#	2SB234	667m		#J	1.5		180	13		.22mØ	1.0Ø	6.0	15					D	TO3	
94#	AD138	667m		#J	8.0		40	10	25	1.0m	1.5Ø	5.0	25	42 Ø	5.5k			A	TO3	
95#	AD138/50	667m		#J	8.0		70	20	35	1.0m	1.5Ø	5.0	25	42 Ø	5.5k			A	TO3	
96	B134	667m		#J	15				40	2.0mØ	3.0Ø	10	15			.20				
97	B134A	667m		#J	15				70	5.0mØ	3.0Ø	10	15			.20				
98	B134B	667m		#J	15				80	5.0mØ	3.0Ø	10	15			.20				
99	B10144	667m	50	♦J	20				165 Ø	1.0m	2.0Ø	15	25			.03	1.5u#	AD△	TO3	
100	B10144A	667m	50	♦J	20				130 Ø	1.0m	2.0Ø	15	25			.03	1.5u#	AD△	TO3	
101	B10144B	667m	50	♦J	20				100 Ø	1.0m	2.0Ø	15	25			.03	1.5u#	AD△	TO3	
102	CTP1112	667m		#J	3.0		80		75			2.0	20		300kt			A		
103	CTP1117	667m		#J	3.0		40		40			1.0			300kt			A		
104	CTP1127	667m		#J			80		60			2.0			300kt			A		
105	CTP1133	667m		#J			40	6.0				.50						A		
106	CTP1135	667m	40	#J			40	20				.50 Ø	40			.50		A		
107	CTP1137	667m		#J			40		40			.50						A		
108	CTP1265	667m			8.0	.60	60		50	20m	2.0Ø	5.0	30	75				AΔ	TO3	

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TAB	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#LEAD CONFIG
1	CTP1266	667m			8.0	.30	60		50	20m	2.0Ø	5.0	60	150				AΔ	TO3	
2	CTP1296	667m			8.0	.60	80		65	20m	2.0Ø	5.0	30	75				AΔ	TO3	
3	CTP1297	667m			8.0	.30	80		65	20m	2.0Ø	5.0	60	150				AΔ	TO3	
4	CTP1306	667m			8.0	.60	40		35	20m	2.0Ø	5.0	30	75				AΔ	TO3	
5	CTP1307	667mØ			8.0	.30	40		35	20m	2.0Ø	5.0	60	150				AΔ	TO3	
6	CTP1314	667m			8.0	.60	100		75	20m	2.0Ø	5.0	30	75				AΔ	TO3	
7#	GET7	667m		ØJ	8.0		15			1.5mØ	1.5	5.0			250kt			A		
8#	GET8	667m		ØJ	8.0		30			1.5mØ	1.5	5.0			250kt			A		
9#	GET9	667m		ØJ	8.0		60			1.5mØ	1.5	5.0			250kt			A		
10	LT5088	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	40		100kt	1.0			TO13	FØ
11	LT5089	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	40		100kt	1.0			TO10	FØ
12	LT5090	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	40		100kt	1.0			TO3	CØ
13	LT5091	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	80		100kt	1.0			TO13	FØ
14	LT5092	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	80		100kt	1.0			TO10	FØ
15	LT5093	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	80		100kt	1.0			TO3	CØ
16	LT5094	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	160		100kt	1.0			TO13	FØ
17	LT5095	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	160		100kt	1.0			TO10	FØ
18	LT5096	667m		#J	6.0	.70	30	15	30	3.0m	2.0Ø	1.0	160		100kt	1.0			TO3	CØ
19	LT5097	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	40		100kt	1.0			TO13	FØ
20	LT5098	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	40		100kt	1.0			TO10	FØ
21	LT5099	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	40		100kt	1.0			TO3	CØ
22	LT5100	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	80		100kt	1.0			TO13	FØ
23	LT5101	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	80		100kt	1.0			TO10	FØ
24	LT5102	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	80		100kt	1.0			TO3	CØ
25	LT5103	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	160		100kt	1.0			TO13	FØ
26	LT5104	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	160		100kt	1.0			TO10	FØ
27	LT5105	667m		#J	6.0	.70	60	15	60	3.0m	2.0Ø	1.0	160		100kt	1.0			TO3	CØ
28	LT5106	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	40		100kt	1.0			TO13	FØ
29	LT5107	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	40		100kt	1.0			TO10	FØ
30	LT5108	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	40		100kt	1.0			TO3	CØ
31	LT5109	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	80		100kt	1.0			TO13	FØ
32	LT5110	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	80		100kt	1.0			TO10	FØ
33	LT5111	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	80		100kt	1.0			TO3	CØ
34	LT5112	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	160		100kt	1.0			TO13	FØ
35	LT5113	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	160		100kt	1.0			TO10	FØ
36	LT5114	667m		#J	6.0	.70	80	15	75	3.5m	2.0Ø	1.0	160		100kt	1.0			TO3	CØ
37	LT5115	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	40		100kt	1.0			TO13	FØ
38	LT5116	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	40		100kt	1.0			TO10	FØ
39	LT5117	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	40		100kt	1.0			TO3	CØ
40	LT5118	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	80		100kt				TO13	FØ
41	LT5119	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	80		100kt				TO10	FØ
42	LT5120	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	80		100kt	1.0			TO3	CØ
43	LT5121	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	160		100kt	1.0			TO13	FØ
44	LT5122	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	160		100kt	1.0			TO10	FØ
45	LT5123	667m		#J	6.0	.70	100	15	90	4.0m	2.0Ø	1.0	160		100kt	1.0			TO3	CØ
46	LT5160	667m		#J	6.0		100	15	90	4.0m	2.0Ø	1.0	40		100kt	1.0				
47	LT5161	667m		#J	6.0		100	15	90	4.0m	2.0Ø	1.0	40		100kt	1.0				
48	LT5162	667m		#J	6.0		100	15	90	4.0m	2.0Ø	1.0	40		100kt	1.0				
49#	NKT452S1	667m		#J	3.0	.50	60	10	60 Ø	.10mØ	1.5	1.0	30	100					TO3	
50	X134	667m		#J	12				40			10								
51	X137	667m		#J	12				60			10								
52#	2SB296	714m	30 Ø	ØJ	10		160	3.0	160 Ø	330uØ	1.5Ø	10	25	200	1.5Mt	150m		DΔ	MD6	
53#	2SB300	735m	35 Ø	ØJ	10		100	1.0	100 §	330uØ	1.5Ø	5.0	30	200				D	TO3	
54#	2SB301	735m	35 Ø	ØJ	10		60	1.0	60 §	330uØ	1.5Ø	5.0	30	200				D	TO3	
55#	2SB228	757mØ			5.0	2.0	80	50	35	5.0m	1.5Ø	4.0	20	54		160m		A	TO3	
56#	2SB229	757mØ			5.0	2.0	100	50	40	5.0m	1.5Ø	4.0	20	54		160m		A	TO3	
57#	2SB230	757mØ			5.0	2.0	120	50	50	5.0m	1.5Ø	4.0	20	54		160m		A	TO3	
58#	2SB85	769mØ		#J	5.0	2.0	40	20	25	3.0m	1.5Ø	4.0	14					A		
59#	2SB86	769mØ		#J	5.0	2.0	60	20	35	3.0m	1.5Ø	4.0	14					A		
60#	2SB87	769mØ		#J	5.0	2.0	80	60	50	3.0m	1.5Ø	4.0	20					A		
61	2N290	833m	55 Ø	#J	12		70	60		1.0m	2.0	1.2	72 Ø		400k	50m		Δ	TO6	
62	2N391	833m		#J	5.0	1.0	50	20	40	8.0m	2.0	3.0	30	75			10u	A		
63#	2SB124	833m		ØJ	15		60	25		10m	1.5	15	70 Ø		300kt	.02		A	MS1	
64#	2SB125	833m		ØJ	15		36	25		10m	1.5	15	70 Ø		300kt	.02		A	MS1	
65#	2SB148	833m		ØJ	15		80	20		10m	1.5	15	70 Ø		300kt	.02		A	MS1	
66#	2SB246	833m	54 Ø	#J	5.0		40		25	500u	1.5Ø	2.0	40	80	350kt			A	TO3	
67#	2SB247	833m	54 Ø	#J	5.0		60		35	500u	1.5Ø	2.0	40	80	350kt	500m		A	TO3	
68#	2SB248	833m	54 Ø	#J	5.0		40		25	1.0m	1.5Ø	2.0	40	80	350kt			A	TO3	
69#	2SB248A	833m	54 Ø	#J	5.0		60		35	1.0m	1.5Ø	2.0	40	80	350kt			A	TO3	
70#	2SB249	833m	54 Ø	#J	5.0		80	40	40	1.0m	1.5Ø	2.0	40	80	350kt	500m		A	TO3	
71#	2SB250	833m	54 Ø	#J	5.0		30		20 §	5.0m	1.5Ø	2.0	20	60	350kt			A	TO3	
72#	2SB250A	833m	54 Ø	#J	5.0		60		40 §	5.0m	1.5Ø	2.0	20	60	350kt			A	TO3	
73#	2SB251	833m	54 Ø	#J	5.0		30		20 §	5.0m	1.5Ø	2.0	40	150	350kt			A	TO3	
74#	2SB251A	833m	54 Ø	#J	5.0		60		40 §	5.0m	1.5Ø	2.0	40	150	350kt			A	TO3	
75#	2SB252	833m	54 Ø	#J	5.0		80		50 §	5.0m	1.5Ø	2.0	20	60	350kt	500m		A	TO3	
76#	2SB252A	833m	54 Ø	#J	5.0		120		80 §	5.0m	1.5Ø	2.0	20	60	350kt	500m		A	TO3	
77#	2SB253	833m	54 Ø	#J	5.0		80		50 §	5.0m	1.5Ø	2.0	40	150	350kt	500m		A	TO3	
78#	2SB253A	833m	54 Ø	#J	5.0		120		80 §	5.0m	1.5Ø	2.0	40	150	350kt	500m		A	TO3	
79#	2SB358	833m	50 Ø	#J	6.0	6.0 Ø	80	1.5	80 Ø	5.0m	1.5Ø	4.0	10	100 Ø				D	TO3	
80#	2SB359	833m	50 Ø	#J	10	10 Ø	120	1.5	120 Ø	5.0m	1.5Ø	4.0	10	100 Ø				D	TO3	
81#	2SB360	833m	50 Ø	#J	10	10 Ø	80	1.5	180 Ø	5.0m	1.5Ø	4.0	10	100 Ø				D	TO3	
82	B1151	833mØ		#	15		30	25	25	2.0mØ	2.0	4.0	20		400kt	.25			TO3	
83	B1151A	833mØ		#	15		50	25	40	2.0mØ	2.0	4.0	20		400kt	.25			TO3	
84	B1151B	833mØ		#	15		80	25	70	2.0mØ	2.0	4.0	20		400kt	.25			TO3	
85	B1152	833mØ		#	15		30	25	25	2.0mØ	2.0	8.0	20		400kt	.13			TO3	
86	B1152A	833mØ		#	15		50	25	40	2.0mØ	2.0	8.0	20		400kt	.13			TO3	
87	B1152B	833mØ		#	15		80	25	70	2.0mØ	2.0	8.0	20		400kt	.13			TO3	
88	B1178	833mØ		♦	10		160	15	160	10mØ	2.0	5.0	40 Ø		1.0Mt	.15	2.0u	DA	TO3	A
89	B10060	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	25			.06		DΔ	TO3	
90	B10061	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	15			.06		DΔ	TO3	
91	B10062	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	25			.06		DΔ	TO3	
92	B10063	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	15			.06		DΔ	TO3	
93	B10065	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	25			.06		DΔ	TO41	
94	B10066	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	15			.06		DΔ	TO41	
95	B10067	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	25			.06		DΔ	TO41	
96	B10068	833m	60	♦J	14	2.0			80 Ø		2.0Ø	12	15			.06		DΔ	TO41	
97#	GFT8024	833mØ		ØJ	8.0		30	15	15		2.0	8.0	20			.15		A		
98	MP2137	833m	70 Ø	♦J			30	15	20	2.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
99	MP2137A	833m	70 Ø	♦J			30	15	20	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
100	MP2138	833m	70 Ø	♦J			45	25	30	2.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
101	MP2138A	833m	70 Ø	♦J			45	25	30	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
102	MP2139	833m	70 Ø	♦J			60	30	45	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
103	MP2139A	833m	70 Ø	♦J			60	30	45	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
104	MP2140	833m	70 Ø	♦J			75	40	60	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
105	MP2140A	833m	70 Ø	♦J			75	40	60	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
106	MP2141	833m	70 Ø	♦J			90	45	65	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
107	MP2141A	833m	70 Ø	♦J			90	45	65	5.0mt	2.0Ø	500m	30	60	20k	250m		A	TO41	CØ
108	MP2142	833m	70 Ø	♦J			30	15	20	5.0mt	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
109	MP2142A	833m	70 Ø	♦J			30	15	20	5.0mt	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
110	MP2143	833m	70 Ø	♦J			45	25	30	5.0mt	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AX EM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CONF
1	MP2143A	833m	70 Ø	♦J			45	25	30	5.0m†	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
2	MP2144	833m	70 Ø	♦J			60	30	45	5.0m†	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
3	MP2144A	833m	70 Ø	♦J			60	30	45	5.0m†	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
4	MP2145	833m	70 Ø	♦J			75	40	60	5.0m†	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
5	MP2145A	833m	70 Ø	♦J			75	40	60	5.0m†	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
6	MP2146	833m	70 Ø	♦J			90	45	65	5.0m†	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
7	MP2146A	833m	70 Ø	♦J			90	45	65	5.0m†	2.0Ø	500m	50	100	20k	250m		A	TO41	CØ
8	2N115	1.0		ØJ	3.0	.50	32	10		.10mØ	14Ø	.30		90	200k†	.27		AΔ		
9	JAN2N174	1.0	70 Ø	#J			80	60	80 ⊠	15m	2.0Ø	1.2	40	80	100kΔ	60m			TO6	
10	2N179	1.0		#S	1.0				40	3.0mØ	12Ø	.50 Ø	10			1.0		A		
11	2N1315	1.0		#J	3.5		32	10	32	.10mØ	6.0	3.5		64	300k†			A		
12	2N2069	1.0	20 §	#S	12	3.0	40	20	30 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO3	CØ
13	2N2070	1.0	20 §	#S	12	3.0	80	30	60 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO3	CØ
14	2N2071	1.0	20 §	#S	12	3.0	40	20	30 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO41	CØ
15	2N2072	1.0	20 §	#S	12	3.0	80	30	60 Ø	15m	2.0Ø	5.0	30	200	1.5kΔ	125m			TO41	CØ
16	JAN2N2210	1.0	70 Ø	#S		200m	100	60	80	4.0m	2.0Ø	5.0	25	50	5.0kΔ	50m			MT63a	BØ
17#	2SB235	1.0	60 Ø	#J	15	15 Ø	80	25	80 Ø	10mØ	2.0Ø	5.0	25	200	200kt△	50m		A	TO36	
18#	2SB236	1.0	60 Ø	#J	15	15 Ø	60	25	60 Ø	10mØ	2.0Ø	5.0	25	200	200kt△	50m		A	TO36	
19#	2SB237	1.0	60 Ø	#J	15	15 Ø	36	25	36 Ø	10mØ	2.0Ø	5.0	25	200	200kt△	50m		A	TO36	
20#	2SB258	1.0	60 Ø	ØJ	15		120	1.0		3.5mØ	1.5Ø	5.0	38	280	1.5Mt			AD	TO36	
21#	2SB259	1.0	60 Ø	ØJ	15		80	1.0		3.5mØ	1.5Ø	5.0	38	280	1.5Mt			AD	TO36	
22#	2SB260	1.0	60 Ø	ØJ	15		50	1.0		3.5mØ	1.5Ø	5.0	38	280	1.5Mt			AD	TO36	
23#	2SB483	1.0	60 Ø	#J	15		80	40	60 Ø	5.0m	1.5	10	40	100 Ø	2.5k	30m		A	TO3	
24#	2SB484	1.0	60 Ø	#J	15		100	40	75 Ø	5.0m	1.5	10	40	100 Ø	2.5k	30m		A	TO3	
25#	2SB485	1.0	60 Ø	#J	15		140	40	85 Ø	5.0m	1.5	10	40	100 Ø	2.5k	30m		A	TO3	
26#	ADY18	1.0 Ø	45 Ø	ØJ	15	3.0	60	25	15	2.0m	2.0Ø	3.0	10	15 Ø	100kt			A	MT15	
27	B1110	1.0	60	#J	3.0				60	2.0m						.20		△	TO3	
28	B102000	1.0 #	45 Ø		7.0				30	2.0mØ	2.0Ø	1.0	40	250		.20		A	TO3	
29	B102001	1.0 #	45 Ø		7.0				40	2.0mØ	2.0Ø	1.0	40	250		.20		A	TO3	
30	B102002	1.0 #	45 Ø		7.0				50	2.0mØ	2.0Ø	1.0	40	250		.20		A	TO3	
31	B102003	1.0 #	45 Ø		7.0				60	2.0mØ	2.0Ø	1.0	40	250		.20		A	TO3	
32	B103000	1.0 #	45 Ø		10				30	2.0mØ	2.0Ø	3.0	40	200		.12		A	TO3	
33	B103001	1.0 #	45 Ø		10				40	2.0mØ	2.0Ø	3.0	40	200		.12		A	TO3	
34	B103002	1.0 #	45 Ø		10				50	2.0mØ	2.0Ø	3.0	40	200		.12		A	TO3	
35	B103003	1.0 #	45 Ø		10				60	2.0mØ	2.0Ø	3.0	40	200		.12		A	TO3	
36	B103004	1.0 #	45 Ø		10				70	2.0mØ	2.0Ø	3.0	40	200		.12		A	TO3	
37	CTP1505	1.0		#J	13		60		45		2.0Ø	5.0	15	45		.13				
38	CTP1506	1.0		#J	13		50		35		2.0Ø	5.0	35	70		.13				
39	CTP1507	1.0		#J	13		50		35		2.0Ø	5.0	15	45		.13				
40	CTP1509	1.0		#J	13		40		30		2.0Ø	5.0	15	45		.13				
41	CTP1511	1.0		#J	13		100		75		2.0Ø	5.0	60	120						
42	CTP1512	1.0		#J	13		80		60		2.0Ø	5.0	60	120						
43	CTP1513	1.0		#J	13		60		40		2.0Ø	5.0	60	120						
44	CTP1514	1.0		#J	13		40		30		2.0Ø	5.0	60	120						
45#	CTP1545	1.0	1.7 *	#J	25		80	30	40	15m	2.0Ø	25	25 †	125 †	4.0k	40m			TO3	
46#	CTP1553	1.0	1.7 *	#J	25		100	30	50	20m	2.0Ø	25	25 †	125 †	4.0k	40m			TO3	
47	H200E	1.0		#J	10		60	30	30	2.0m	2.0Ø	5.0	20		400kt	.10		AΔ		
48	MN21	1.0		#J	3.0		80			2.0m	4.0Ø	1.0	40	80	280kt	.50		A		
49	MN28	1.0		#J	3.0		30			5.0m	2.0Ø	.50	30	100		2.0		A		
50	MN29	1.0		#J	3.0		40			5.0mØ	2.0Ø	.50	30	100		2.0		A		
51	MN32	1.0		#J	3.0		30			3.0m	12	.50 Ø	30	70		.80		A		
52#	OD650	1.0 Ø	45 Ø	ØJ	15	3.0	60	20	25	2.0m	2.0Ø	15	10	25 Ø	100kt			A	MT15	
53#	OD650B	1.0 Ø	45 Ø	ØJ	5.0	1.0	60	20	25	2.0m	2.0Ø	5.0	15	25 Ø	100kt			A	MT15	
54#	OD651	1.0 Ø	45 Ø	ØJ	15	3.0	60	25	40	2.0m	2.0Ø	15	10	15 Ø	100kt			A	MT15	
55#	OD651A	1.0 Ø	45 Ø	ØJ	15	3.0	60	25	30	2.0m	2.0Ø	15	10	25 Ø	100kt			A	MT15	
56#	V15/15NP	1.0 Ø		ØJ	6.0		15	4.0	5.0	.10mØ	1.5	2.0	15	30	150kt			A		
57#	V15/30NP	1.0 Ø		ØJ	6.0		15	4.0	5.0	.10mØ	1.5	2.0	30	60	150kt			A		
58#	V30/15NP	1.0 Ø		ØJ	6.0		30	8.0	10	.10mØ	1.5	2.0	15	30	150kt			A		
59#	V30/30NP	1.0 Ø		ØJ	6.0		30	8.0	10	.10mØ	1.5	2.0	30	60	150kt			A		
60#	XC141	1.0		#S	2.0		40	12	40	3.0mØ	1.5	1.0		70				A	TO3	
61#	XC142	1.0			2.0		60	12	40	3.0mØ	1.5	1.0		70				A	TO3	
62#	2G220	1.1 Ø		#J	10	5.0	40	30		2.0mØ	1.5Ø	10	10	12 Ø	200k	.05	11u	A	MD4	
63#	2G221	1.1 Ø		#J	10	5.0	60	30		2.0mØ	1.5Ø	10	10	12 Ø	200k	.05	11u	A	MD4	
64#	2G222	1.1 Ø		#J	10	5.0	80	30		2.0mØ	1.5Ø	10	10	12 Ø	200k	.05	11u	A	MD4	
65#	2G223	1.1 Ø		#J	15	5.0	40	30		2.0mØ	1.5Ø	15	10	12 Ø	250kt	50m	11u	A	MD4	
66#	2G224	1.1 Ø		#J	15	5.0	60			2.0mØ	1.5Ø	15	10	12 Ø	250kt	50m	11u	A	MD4	
67#	2G225	1.1 Ø		#J	15	5.0	80			2.0mØ	1.5Ø	15	10	12 Ø	250kt	50m	11u	A	MD4	
68#	2G226	1.1 Ø		#J	20	5.0	40			2.0mØ	1.5Ø	20	10	12 Ø	300kt	50m	10u	A	MD4	
69#	2G227	1.1 Ø		#J	20	5.0	60			2.0mØ	1.5Ø	20	10	12 Ø	300kt	50m	10u	A	MD4	
70#	2G228	1.1 Ø		#J	20	5.0	80			2.0mØ	1.5Ø	20	10	12 Ø	300kt	50m	10u	A	MD4	
71#	2G229	1.1 Ø		#J	25	5.0	40	30		2.0m	1.5Ø	25	10	12 Ø	350kt	.05	10u	A	MD4	
72#	2G230	1.1 Ø		#J	25	5.0	60	30		2.0mØ	1.5Ø	25	10	12 Ø	300kt	.05	10u	A	MD4	
73#	2G231	1.1 Ø		#J	25	5.0	80	30		2.0mØ	1.5Ø	25	10	12 Ø	300kt	.05	10u	A	MD4	
74	2N1029	1.2		#J	15		50	25	20	15m♦	2.0Ø	10	20	60		100m			MD16	CØ
75	2N1029A	1.2		#J	15		60	25	30	15m♦	2.0Ø	10	20	60		100m			MD16	CØ
76	2N1029B	1.2		#J	15		90	25	60	15m♦	2.0Ø	10	20	60		100m			MD16	CØ
77	2N1029C	1.2		#J	15		100	25	70	15m♦	2.0Ø	10	20	60		100m			MD16	CØ
78	2N1030	1.2		#J	15		50	25	20	15m♦	2.0Ø	10	50	100		100m			MD16	CØ
79	2N1030A	1.2		#J	15		60	25	30	15m♦	2.0Ø	10	50	100		100m			MD16	CØ
80	2N1030B	1.2		#J	15		90	25	60	15m♦	2.0Ø	10	50	100		100m			MD16	CØ
81	2N1030C	1.2		#J	15		100	25	70	15m♦	2.0Ø	10	50	100		100m			MD16	CØ
82	2N2211	1.2	90 Ø	#	5.0	3.0	80	40	60 Ø	20m	4.0Ø	1.0	60	140	5.0k				TO3	
83	2N2446†	1.2	90 Ø	♦S	7.0	5.0	60	20	50	2.0m	2.0Ø	5.0	15	45	3.0k§△		30uØ		TO3	
84	2N3132	1.2	90 Ø	#C	5.0	5.0	100	40	70 Ø	5.0m#	2.0Ø	2.0	40	200	3.0kΔ	300m	20uØØ	△	TO3Ø	
85	B113000	1.2	70 Ø	♦J	25	2.5	110	2.0	70	100mΔ	2.0Ø	2.0	60	300		100m		DΔ	TO3	
86	B113001	1.2	70 Ø	♦J	25	2.5	130	2.0	80	100mΔ	2.0Ø	2.0	60	300		100m		DΔ	TO3	
87	B113002	1.2	70 Ø	♦J	25	2.5	160	2.0	100	100mΔ	2.0Ø	2.0	60	300		100m		DΔ	TO3	
88	B113003†	1.2	70 Ø	♦J	25	2.5	130	2.0	80	50m*	2.0Ø	10	30	100		30m	30u	DΔ	TO3	
89	B113004†	1.2	70 Ø	♦J	25	2.5	160	2.0	90	50m*	2.0Ø	10	30	100		30m	30u	DΔ	TO3	
90	B113005†	1.2	70 Ø	♦J	25	2.5	170	2.0	100	50m*	2.0Ø	10	30	100		30m	30u	DΔ	TO3	
91	CQT940BA	1.2	90 Ø	#J	15	5.0	80	60	60 Ø		2.0Ø	10	30			60m		A	TO3	CØ
92	CRT1544	1.2	90 Ø	#J	25	5.0	60	30	40 Ø	15m	2.0Ø	25	25	125	5.0k	40m		AΔ	TO41	A
93	CRT1545	1.2	90 Ø	#J	25	5.0	80	30	60 Ø	15m	2.0Ø	25	25	125	5.0k	40m		AΔ	TO41	A
94	CRT1552	1.2	90 Ø	#J	25	5.0	40	30	30 Ø	10m	2.0Ø	25	25	75	5.0k	40m		AΔ	TO41	A
95	CRT1553	1.2	90 Ø	#J	25	5.0	100	30	75 Ø	10m	2.0Ø	25	25	75	5.0k	40m		AΔ	TO41	A
96	CTP1503	1.2	90 Ø	#J	15	5.0	80	30	70 Ø	8.0m	2.0Ø	5.0	30	75		70m		AΔ	TO3	CØ
97	DTG1000	1.2		♦J	15	3.0			100		2.0Ø	8.0	20	50 Ø				A	TO41	
98	DTG1110B†	1.2			15	3.0	250		80		2.0	4.0	25	150	350k§	160m	6.0u	D	TO3	
99	DTG1210A†	1.2			15	3.0	250		40		2.0	1.0	35		350k§	160m	6.0u	D	TO3	
100	MP1529†	1.2	90 Ø	♦J	5.0		40	20	20	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	TO41	CØ
101	MP1529A†	1.2	90 Ø	♦J	5.0		40	20	20	2.0mØ	2.0Ø	3.0	20	40	5.0kΔ	500m	8.0uØ	A	TO41	CØ
102	MP1530†	1.2	90 Ø	♦J	5.0		60	30	30	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	TO41	CØ
103	MP1530A†	1.2	90 Ø	♦J	5.0		60	30	30	2.0mØ	2.0Ø	3.0	20	40	5.0kΔ	500m	8.0uØ	A	TO41	CØ
104	MP1531†	1.2	90 Ø	♦J	5.0		80	40	40	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	TO41	CØ
105	MP1531A†	1.2	90 Ø	♦J	5.0		80	40	40	2.0mØ	2.0Ø	3.0	20	40	5.0kΔ	500m	8.0uØ	A	TO41	CØ
106	MP1532†	1.2	90 Ø	♦J	5.0		100	50	50	2.0mØ	2.0Ø	3.0	20	40		500m	8.0uØ	A	TO41	CØ
107	MP1532A†	1.2	90 Ø	♦J	5.0		100	50	50	2.0mØ	2.0Ø	3.0	20	40	5.0kΔ	500m	8.0uØ	A	TO41	CØ
108	MP1533†	1.2	90 Ø	♦J	5.0		120	60	60	2.0mØ	2.0Ø	3.0	20	40		400m	8.0uØ	A	TO41	CØ
109	MP1534†	1.2	90 Ø	♦J	5.0		40	20	20	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	TO41	CØ
110	MP1534A†	1.2	90 Ø	♦J	5.0		40	20	20	2.0mØ	2.0Ø	3.0	35	70	5.0kΔ	400m	8.0uØ	A	TO41	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG Y200 s/a TO200 Ser.	#LEADCODE
1	MP1535†	1.2	90 Ø	♦J	5.0		60	30	30	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	TO41	CØ
2	MP1535A†	1.2	90 Ø	♦J	5.0		60	30	30	2.0mØ	2.0Ø	3.0	35	70	5.0kΔ	400m	8.0uØ	A	TO41	CØ
3	MP1536†	1.2	90 Ø	♦J	5.0		80	40	40	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	TO41	CØ
4	MP1536A†	1.2	90 Ø	♦J	5.0		80	40	40	2.0mØ	2.0Ø	3.0	35	70	5.0kΔ	400m	8.0uØ	A	TO41	CØ
5	MP1537†	1.2	90 Ø	♦J	5.0		100	50	50	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	TO41	CØ
6	MP1537A†	1.2	90 Ø	♦J	5.0		100	50	50	2.0mØ	2.0Ø	3.0	35	70	5.0kΔ	400m	8.0uØ	A	TO41	CØ
7	MP1538†	1.2	90 Ø	♦J	5.0		120	60	60	2.0mØ	2.0Ø	3.0	35	70		400m	8.0uØ	A	TO41	CØ
8	MP1549	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
9	MP1549A†	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
10	MP1550	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
11	MP1550A†	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
12	MP1551	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
13	MP1551A†	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
14	MP1552	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
15	MP1552A†	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	10	30	10k	100m	5.0uØ	A	TO41	CØ
16	MP1553	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
17	MP1553A†	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
18	MP1554	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
19	MP1554A†	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
20	MP1555	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
21	MP1555A†	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
22	MP1556	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
23	MP1556A†	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	30	60	6.0k	70m	10uØ	A	TO41	CØ
24	MP1557	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
25	MP1557A†	1.2	90 Ø	#J	15		40	20	20	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
26	MP1558	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
27	MP1558A†	1.2	90 Ø	#J	15		60	30	30	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
28	MP1559	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
29	MP1559A†	1.2	90 Ø	#J	15		80	40	40	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
30	MP1560	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
31	MP1560A†	1.2	90 Ø	#J	15		100	50	50	3.0mØ	2.0Ø	10	50	100	5.0k	50m	10uØ	A	TO41	CØ
32#	NKT501	1.2	90 Ø	#J	25	4.0	60	12	60 Ø	300uØ	1.5	25	12		650k†			A	TO3	
33#	NKT502	1.2	90 Ø	#J	25	4.0	30	12	30 Ø	300uØ	1.5	25	12		650k†			A	TO3	
34#	NKT503	1.2	90 Ø	#J	25	4.0	60	12	60 Ø	300uØ	1.5	10	12		650k†			A	TO3	
35#	NKT504	1.2	90 Ø	#J	25	4.0	30	12	30 Ø	300uØ	1.5	10	12		650k†			A	TO3	
36#	SFT264	1.2	87 Ø	#C	15		30	15	15	8.0m	2.0Ø	5.0	25	100	300k†	600m		A	TO36	CØ
37#	SFT265	1.2	87 Ø	#C	15	2.5	40	20	40	8.0m	2.0Ø	5.0	25	45 Ø	300k†	60m	9.0uØ	A	TO36	CØ
38#	SFT266	1.2	87 Ø	#C	15	2.5	60	40	50	8.0m	2.0Ø	5.0	25	45 Ø	300k†	60m	6.0u	AΔ	TO36	CØ
39#	SFT267	1.2	87 Ø	#S	15	2.5	80	60	60	8.0m	2.0Ø	5.0	25	45 Ø	300k†	60m	6.0u	AΔ	TO36	CØ
40#	SFT268	1.2	87 Ø	#C	15	2.5	100	60	70	8.0m	2.0Ø	5.0	25	45 Ø	300k†	60m	6.0u	AΔ	TO36	CØ
41	TI366A	1.2	25 Ø		3.0		60		45	.10mØ	1.0Ø	1.0	50			.10		A	TO3	
42	TI367A	1.2	25 Ø		3.0		60		40	.20mØ	1.0Ø	.50	30			.15		A	TO3	
43	TI368A	1.2	25 Ø		3.0		45		25	.10mØ	1.0Ø	1.0	50			.10		A	TO3	
44	TI369A	1.2	25 Ø		3.0		45		23	.20mØ	1.0Ø	.50	30			.15		A	TO3	
45	TI370A	1.2	25 Ø		3.0		30		45	.20mØ	1.0Ø	.50	30			.15		A	TO3	
46	TI3027	1.2 $	2.0	#C	7.0	3.0	45	20	40	1.0mØ	2.0Ø	3.0	40	250 #				A	TO3	CØ
47	TI3028	1.2 $	2.0	#C	7.0	3.0	60	20	50	1.0mØ	2.0Ø	3.0	40	250 #				A	TO3	CØ
48	TI3029	1.2 $	2.0	#C	7.0	3.0	80	20	55	1.0mØ	2.0Ø	3.0	40	250 #				A	TO3	CØ
49	TI3030	1.2 $	2.0	#C	7.0	3.0	100	20	60	1.0mØ	2.0Ø	3.0	40	250 #				A	TO3	CØ
50	TS610	1.2 Ø	106 Ø	♦J	5.0		25	20	20 Ø	5.0m	2.0Ø	2.0	15		4.0k†		25u	A	TO3	
51	USAF506ESO10M																			
		1.2 §	20 Ø	#J	15	4.0	80	60	60	200uØ	2.0Ø	5.0	25	50	5.0kΔ	100m		A	TO36Ø	
52	2N301B	1.3	90	#J			40		32 Ø										TO3	
53	2N301G	1.3	90	#J			40		32 Ø										TO3	
54	2N301W	1.3	90	#J			40		32 Ø										TO3	
55	2N1358M	1.3		♦J	15	4.0	80	40	40	4.0m	2.0Ø	5.0	25	50	5.0k	.06	15u		TO36	
56	2N1419	1.3 Ø							70	15m	2.0Ø	25	40	100		.35	20u		TO3	
57#	2SB203	1.3	80 Ø	#J	20		40		30 Ø	5.0m	1.5Ø	15	20	40 Ø				A	MD18	
58#	2SB204	1.3	80 Ø	#J	30		40		30 Ø	5.0m	1.5Ø	15	50	100 Ø				A	MD18	
59#	2SB205	1.3	80 Ø	#J	20		80		60 Ø	5.0m	1.5Ø	15	20	40 Ø				A	MD18	
60#	2SB477	1.3	80 Ø	#J	30	3.0	30	15	15	5.0m	2.0Ø	15	20	130		80m		A	TO36	
61#	2SB478	1.3	80 Ø	#J	30	3.0	60	30	30	5.0m	2.0Ø	15	20	130		80m		A	TO36	
62#	2SB479	1.3	80 Ø	#J	30	3.0	80	40	40	5.0m	2.0Ø	15	20	130		80m		A	TO36	
63#	2SB480	1.3	80 Ø	#J	30	3.0	100	50	50	5.0m	2.0Ø	15	20	130		80m		A	TO36	
64	B1181	1.3 Ø		♦	25		160	2.0	160	10mØ	1.5	15	60 Ø		2.0Mt	.03	2.0u	DA	TO3	A
65	B1368B	1.3 Ø		♦J	25				100	10mØ	2.0Ø	10	35	140				DAΔ	TO41	
66	B1368C	1.3 Ø		♦J	25				100	10mØ	2.0	10	35	140			2u#Ø	DAΔ	TO41	
67#	CRT1592	1.3		#J	35		80		60	4.0m	4.0Ø	35	12					AΔ	TO3	
68	CTP1530	1.3		#J	13	4.0	100		80			5.0	25	50	10kt	.06				
69	CYT1549	1.3		#J	15		40		20	3.0mØ	2.0Ø	10	10	30				AΔ	TO41	
70	CYT1550	1.3		#J	15		60		30	3.0mØ	2.0Ø	10	10	30				AΔ	TO41	
71	CYT1551	1.3		#J	15		80		40	3.0mØ	2.0Ø	10	10	30				AΔ	TO41	
72	CYT1552	1.3		#J	15		100		50	3.0mØ	2.0Ø	10	10	30				AΔ	TO41	
73	CYT1553	1.3		#J	15		40		20	3.0mØ	2.0Ø	10	30	60				AΔ	TO41	
74	CYT1554	1.3		#J	15		60		30	3.0mØ	2.0Ø	10	30	60				AΔ	TO41	
75	CYT1555	1.3		#J	15		80		40	3.0mØ	2.0Ø	10	30	60				AΔ	TO41	
76	CYT1556	1.3		#J	15		100		50	3.0mØ	2.0Ø	10	30	60				AΔ	TO41	
77	CYT1557	1.3		#J	15		40		20	3.0mØ	2.0Ø	10	50	100				AΔ	TO41	
78	CYT1558	1.3		#J	15		60		30	3.0mØ	2.0Ø	10	50	100				AΔ	TO41	
79	CYT1559	1.3		#J	15		80		40	3.0mØ	2.0Ø	10	50	100				AΔ	TO41	
80	CYT1560	1.3		#J	15		100		60	3.0mØ	2.0Ø	10	50	100				AΔ	TO41	
81	DTG1011	1.3		♦J	15	3.0			200 #	15m#	1.0Ø	10	40 Ø		420k§	.71	4.0u	A	TO41	
82	DTG1040	1.3		♦J	15	3.0			60 Ø	2.0m	2.0Ø	1.0	45 †	200	420k§			A	TO41	
83	MHT2101	1.3		#J	150		10		5.0			150	40						MT41	
84	MHT2110	1.3		#J	150		10		5.0			150	40 Ø		450k§				MT41a	
85	MHT2111	1.3		#J	175		10		5.0			175	40 Ø		450k§				MT41a	
86	MHT2112	1.3		#J	200		10		5.0			200	40 Ø		450k§				MT41a	
87	MHT2150	1.3		#J	150		10		5.0			150	40 Ø		450k§				R121	
88	MHT2151	1.3		#J	175		10		5.0			175	40 Ø		450k§				R121	
89	MHT2152	1.3		#J	200		10		5.0			200	40 Ø		450k§				R121	
90	TS748	1.3		$J	15	4.0	80	60		8.0m	2.0	5.0	25	50			10u	A		
91	DTG5000	1.4		#J	50	12		1.7	80	500mΔ	2.0Ø	10	60	180 #	200k§Δ				Y204a	CØ
92	DTG5100	1.4		#J	50	12		1.7	100	500mΔ	2.0Ø	10	60	180 #	200k§Δ				Y204a	CØ
93	DTG5200	1.4		#J	50	12		1.7	60	500mΔ	2.0Ø	10	80	240 #	200k§Δ				Y204a	CØ
94	DTG5300	1.4		#J	50	12		1.7	50	500mΔ	2.0Ø	10	40	120 #	200k§Δ				Y204a	CØ
95	H10	1.4		#J	15	2.5	60	28		7.0m	2.0Ø	10	10			.05		A		
96	MHT2205	1.4	121 Ø	♦J	50	10	10	5.0	5.0	5.0m	1.0Ø	50	40 #	120 Ø	450k	3.0m		A	MT23	
97	MHT2305	1.4	121 Ø	♦J	50	10	10	5.0	5.0	5.0m	1.0Ø	50	40 #	120 Ø	450k	3.0m		A	TO36	CØ
98	MP5692†	1.4	120	♦J	40	12	50	2.5	30	200uØ	2.0Ø	25	20	65 #	200k§Δ		20uØ		TO41	CØ
99	MP5693†	1.4	120	♦J	40	12	80	2.5	60	200uØ	2.0Ø	25	20	65 #	200k§Δ		20uØ		TO41	CØ
100	MP5694†	1.4	120	♦J	40	12	100	2.5	80	200uØ	2.0Ø	25	20	65 #	200k§Δ		20uØ		TO41	CØ
101	MP5695†	1.4	120	♦J	40	12	120	2.5	100	200uØ	2.0Ø	25	20	65 #	200k§Δ		20uØ		TO41	CØ
102	MP5696†	1.4	120	♦J	40	12	140	2.5	120	200uØ	2.0Ø	25	20	65 #	200k§Δ		20uØ		TO41	CØ
103#	ADY22	1.5	40 Ø	#J	10	2.0	30	12	15	110uØ	0.0	1.0	110 Ø		250k†	50m		A	TO3	
104#	ADY23	1.5	40 Ø	#J	10	2.0	80	12	40	110uØ	0.0	1.0	150 Ø		250k†			A	TO3	
105#	ADY24	1.5	40 Ø	#J	10	2.0	80	12	40	110uØ	0.0	1.0	150 Ø		250k†			A	TO3	
106	MHT1902	1.6	140 Ø	♦J	65	10	80	30	60	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	MT23	
107	MHT1903	1.6	140 Ø	♦J	65	10	60	30	45	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	MT23	
108	MHT1904	1.6	140 Ø	♦J	65	10	40	20	30	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	MT23	
109	MHT1908	1.6	140 Ø	♦J	60	10	80	30	60	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT23	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. GERMANIUM PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAT EX MP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	MHT1909	1.6	140 Ø	♦J	60	10	60	30	45	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT23	
2	MHT1910	1.6	140 Ø	♦J	60	10	40	20	30	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT23	
3	MHT2002	1.6	140 Ø	♦J	65	10	80	30	60	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	MT22	
4	MHT2003	1.6	140 Ø	♦J	65	10	60	30	45	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	MT22	
5	MHT2004	1.6	140 Ø	♦J	65	10	40	20	30	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	MT22	
6	MHT2008	1.6	140 Ø	♦J	60	10	80	30	60	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT22	
7	MHT2009	1.6	140 Ø	♦J	60	10	60	30	45	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT22	
8	MHT2010	1.6	140 Ø	♦J	60	10	40	20	30	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT22	
9#	2G210	2.0 Ø		#J	6.0	2.0	60	20	60	1.0mØ	1.5Ø	5.0	25	90	400k§	.10		A	MD6	
10	2N1907A	2.0 §	60 Ø	#C	20	3.0	100	2.0	40	10m♦	1.5Ø	10	30	170	20M§△	200m			TO3	CØ
11	2N1908A	2.0 §	60 Ø	#C	20	3.0	130	2.0	50	10m♦	1.5Ø	10	30	170	20M§△	200m			TO3	CØ
12	2N2159A	2.0	170 Ø	♦J	30	30 Ø	90	45	75	4.0m	2.0	5.0	80	160	2.0k△	2.0			MT85	TØ
13	2N2379†	2.0	150 Ø	#C	15	4.0	100	80	80 Ø	8.0m	2.0Ø	5.0	25	37	4.0k	1.2			TO36	
14	2N2793	2.0	170 Ø	♦A	60	10	75	40	60		2.0Ø	15	50	100	2.0k△				TO36	
15	MHT1802	2.0	170 Ø	♦J	65	10	80	30	60	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	TO36	
16	MHT1803	2.0	170 Ø	♦J	65	10	60	30	45	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	TO36	
17	MHT1804	2.0	170 Ø	♦J	65	10	40	20	30	5.0m	2.0Ø	65	15		250k§	7.0m	40u	A	TO36	
18	MHT1808	2.0	170 Ø	♦J	60	10	80	30	60	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
19	MHT1809	2.0	170 Ø	♦J	60	10	60	30	45	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
20	MHT1810	2.0	170 Ø	♦J	60	10	40	20	30	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
21	MP503	2.0	170 Ø	♦J	60		90	45	75	4.0m	2.0	15	30	60	3.6k	10m		A	TO36	
22	MP503A	2.0	170 Ø	♦J	60		90	45	75	4.0m	2.0	15	30	60	3.6k	10m		A	TO36	
23	MP507	2.0	170 Ø	♦J	60		90	45	75	4.0m	2.0	15	50	100	3.6k	10m		A	TO36	
24	MP507A	2.0	170 Ø	♦J	60		90	45	75	4.0m	2.0	15	50	100	3.6k	10m		A	TO36	
25	SDT1808	2.0	170 Ø	♦J	60	10	80	30	60	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
26	SDT1809	2.0	170 Ø	♦J	60	10	60	30	45	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
27	SDT1810	2.0	170 Ø	♦J	60	10	40	20	30	5.0m	2.0Ø	50	15		340k§	10m	10u	A	TO36	CØ
28	ST106	2.0		#J	15	4.0	60	28	50	7.0m	2.0Ø	10	9.0	22	6.0k		15u	A	TO36	
29	ST107	2.0		#J	15	4.0	80	28	50	7.0m	2.0Ø	10	9.0	22	6.0k		15u	A	TO36	
30	ST108	2.0		#J	15	4.0	60	28	50	7.0m	2.0Ø	10	19	42	5.0k		12u	A	TO36	
31	ST109	2.0		#J	15	4.0	80	28	50	7.0m	2.0Ø	10	19	42	5.0k		12u	A	TO36	
32	ST110	2.0		#J	15	4.0	60	28	45	7.0m	2.0Ø	10	38	84	3.0k		10u	A	TO36	
33	ST111	2.0		#J	15	4.0	80	28	45	7.0m	2.0Ø	10	38	84	3.0k		10u	A	TO36	
34	ST112	2.0		#J	15	4.0	60	28	35	20m	2.0Ø	10	25		3.0k		10u	A	TO36	
35	TIG05	2.0	150 Ø	#S	50	5.0	50	30	35	300uØ	2.0Ø	30	20	80	200k§	23m		A	TO3	
36	TIG06	2.0	150 Ø	#S	50	5.0	75	30	45	200uØ	2.0Ø	30	20	80	200k§	13m		A	TO3	
37	TIG07	2.0	150 Ø	#S	50	5.0	100	30	55	200uØ	2.0Ø	30	20	80	200k§	13m		A	TO3	
38	TIG08	2.0	150 Ø	#S	50	5.0	50	30	35	300uØ	2.0Ø	30	20	80	200k§	23m		A	TO41	
39	TIG09	2.0	150 Ø	#S	50	5.0	75	30	45	200uØ	2.0Ø	30	20	80	200k§	13m		A	TO41	
40	TIG10	2.0	150 Ø	#S	50	5.0	100	30	55	200uØ	2.0Ø	30	20	80	200k§	13m		A	TO41	
41	TS609	2.0 Ø	170 Ø	♦J	15	4.0	40	20	40 Ø	8.0m	2.0Ø	5.0	20		10k†		15u	A	TO36	
42	MP900†	3.0	250 Ø	♦J	150		80	2.0	60	10m	2.0Ø	70	20			3.0m	25u		X71	A
43	MP901†	3.0	250 Ø	♦J	150		110	2.0	90	10m	2.0Ø	70	20			3.0m	25u		X71	A
44	MP902†	3.0	250 Ø	♦J	150		140	2.0	120	10m	2.0Ø	70	20			3.0m	25u		X71	A

9. GERMANIUM NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1#	2SD191	2.9mØ		ØJ	.15		30	12	25	14nØ	1.0Ø	.05	20	130				A	TO9	
2#	2SD192	2.9mØ		ØJ	.15		30	12	25	14nØ	1.0Ø	.05	40	130				A	TO9	
3#	2SD194	5.0mØ		ØJ	.40		32	12	32	14nØ	1.0Ø	.15	40	150				A	TO9	
4#	AC175	25m	1.1 Ø*	#J	1.0		25	10	18 *	35uØ	2.0Ø	150m	60 #					A	X9	A
5#	AC179	25m	1.1 Ø*	#J	700m		20	10	15 *	10uØ$	2.0Ø	150m	60 #					A	X9	A
6	2N102	80m		ØJ	800m		30	15	15	5.0m	6.0	50m	40 Ø		400kt				OV4	
7	2N142	80mØ		ØJ	800m		60	30	30	5.0m	12	50m	40 Ø		400kt				MM1	
8	2N144	80mØ		ØJ	800m		60	30	30	5.0m	12	50m	40 Ø		400kt					
9#	AD165	118m	5.3 Ø*	#J	1.0		25	10	20 *	300u	1.0Ø	500m	60 #	185 Ø				A	MD17	CØ
10	2N468	200mØ	12	#J	3.0	500m	60	15	45	2.0m	2.0Ø	1.0	15	80	150kt	1.2		A		
11	LT5164	200m		#J	3.0	.50	80	15	60	3.0m	2.0Ø	1.0	15	80	150kt	1.2		A		
12	LT5165	200m		#J	3.0	.50	35	15	30	1.0m	2.0Ø	1.0	15	80	150kt	1.2		A		
13	LT5202	286m		#J	1.0		60	30	60		6.0Ø	.25	10						TO13	
14	LT5210	286m		#J	1.0		30	15	15	10m	1.0Ø	.50	10						TO13	
15	2N625†	20M	1.5 Ø	#S			40	20	40 Ø	100u	1.5Ø	500m	40				500nØ	A		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CONFIG
1#	BD534				4.0	1.0	45	5.0	45	100u	2.0	500m	40		3.0M				Y220b	
2#	BD536				4.0	1.0	60	5.0	60	100u	2.0	500m	40		3.0M				Y220b	
3#	BD538				4.0	1.0	80	5.0	80	100u	2.0	500m	40		3.0M				Y220b	
4	SE9562	200n#	20 Ø	$J	2.0			5.5	80	100u§	5.0Ø	1.0	30	90 #	50M§△			DPE	TO66	CØ
5	SE9563	200n#	20 Ø	$J	2.0			5.5	80	100u§	5.0Ø	1.0	70	300 #	60M§△			DPE	TO66	CØ
6	SA0403	5.7mØ	1.0	§J	2.0 †			5.0†	80 ☑*	10u§	5.0Ø	1.0	30	90 #	50M§△			DPE	TO39	AØ
7	SA0403A	5.7mØ	1.0	§J	2.0 †			5.0†	80 ☑*	10u§	5.0Ø	1.0	70	300 #	60M§△			DPE	TO39	AØ
8	STP70S	6.6mØ	1.0	§A	200m	30m	700	5.0	700	5.0	10Ø	20m	20	250	20M§△	200	250m		TO5	
9	2N1238	7.1m	1.0	§J			15	15	15	100nØ	2.0Ø	10m	14 Ø		1.2M†			A	X3	
10	2N1239	7.1m	1.0	§J			15	15	15	100nØ	2.0Ø	10m	30 Ø		1.2M†			A	X3	
11	2N1242A	7.1mØ	1.0				90	90		100n	5.0	1.0m△	20 Ø	†	1.0M†			A	X3	
12	STC5802	10m	18 Ø	§J	3.0		40	10	40		3.0Ø	1.0	20	60		300m		D△	TO37	
13	STC5803	10m	18 Ø	§J	3.0		60	10	60		3.0Ø	1.0	20	60		300m		D△	TO37	
14	STC5804	10m	18 Ø	§J	3.0		80	10	80		3.0Ø	1.0	20	60		300m		D△	TO37	
15	STC5805	10m	18 Ø	§J	2.0		40	10	40		3.0Ø	500m	20	60		800m		D△	TO37	
16	STC5806	10m	18 Ø	§J	2.0		60	10	60		3.0Ø	500m	20	60		800m		D△	TO37	
17	STC5807	10m	18 Ø	§J	2.0		80	10	80		3.0Ø	500m	20	60		800m		D△	TO37	
18	STP70P	13mØ	2.0	§A	300m	50m	700	5.0	700	5.0m	10Ø	20m	20	250	20M§△	200	350m		MD14	
19	2N3408	27mØ	4.0	§S	500m		40	3.0	25	400nØ	15Ø	40m	10	100	200M§△			Ø	MT30	
20	MM4645†	28m	5.0 Ø	§J	2.5		200	5.0	200	10u#	10Ø	10m	20		40M§△	2.0	50n	AN	TO39	AØ
21	MM4646†	28m	5.0 Ø	§J	2.5		300	5.0	300	10u#	10Ø	10m	20		40M§△	2.4	50n	AN	TO39	AØ
22	MM4647†	28m	5.0 Ø	§J	2.5		400	5.0	400	10u#	10Ø	10m	20		30M§△	3.0	50n	AN	TO39	AØ
23	SA0419	34m	6.0 Ø	§J	1.0 †	500m	60 †	5.0†	60 ☑	1.5m§♦	1.0Ø	250m	20	150 #	1.0M§△			DME	TO5	AØ
24	SE8542	40m	1.0	§J	1.0		30	5.0	30	50n	1.0Ø	150m	40 #	540 #	500M§			DPL	TO39	A
25	STC5610	50m	8.8 Ø	§J	750m	500m		10	40		4.0Ø	150m	20	60	1.0M§△	200m		D	TO5	A
26	STC5611	50m	8.8 Ø	§J	750m	500m		10	60		4.0Ø	150m	20	60	1.0M§△	200m		D	TO5	A
27	STC5612	50m	8.8 Ø	§J	750m	500m		10	100		4.0Ø	150m	20	60	1.0M§△	200m		D	TO5	A
28	STC5624	50m	8.8 Ø§	J	1.0		120	10	120		3.0Ø	.01	12	36		20		D△	TO5	A
29	ST30100†	55m§	5.0 Ø	§A	1.0		175	5.0	175	100nØ	10Ø	50m	100	300	200M§△	15	100nØ	PEØ	TO5	AØ
30	STP20S	67mØ	1.0	§A	400m	50m	200	5.0	200	3.0m	10Ø	20m	20	250	20M§△	200	200m		TO5	
31	STP30P	67mØ	2.0	§A	500m	100m	300	5.0	300	3.0m	10Ø	20m	20	250	20M§△	200	300m		MD14	
32	STP30S	67mØ	1.0	§A	400m	50m	300	5.0	300	3.0m	10Ø	20m	20	250	20M§△	200	200m		TO5	
33	STP40S	67mØ	1.0	§A	400m	50m	400	5.0	400	3.0m	10Ø	20m	20	250	20M§△	200	200m		TO5	
34	STP50S	67mØ	1.0	§A	400m	50m	500	5.0	500	4.0m	10Ø	20m	20	250	20M§△	200	250m		TO5	
35	STP60S	67mØ	1.0	§A	400m	50m	600	5.0	600	4.0m	10Ø	20m	20	250	20M§△	200	250m		TO5	
36#	2SA645†	70m	7.0 Ø	♦J	800m		70	5.0	60	1.0 Ø	4.0Ø	300m	35 #	300 #	70M§	2.0	200nØ	PE†	X51b	P
37#	2SA646†	70m	7.0 Ø	♦J	800m		90	5.0	80	1.0 Ø	4.0Ø	300m	20 #	300 #	70M§	2.0	200nØ	PE†	X51b	P
38#	2SA647†	70m	7.0 Ø	♦J	800m		110	5.0	100	1.0 Ø	4.0Ø	300m	20 #	300 #	70M§	2.0	200nØ	PE†	X51b	P
39	RE3842	80m	12	J	1.0		36	4.0	18	200u	5.0	50m	10					PL		
40	RE3843	108m	18	J	3.0		36	4.0	18	400u	5.0	50m	10					PL		
41#	2SA613	119m	15 Ø	§J	2.0 #	500m	60	7.0	40	1.0mØ	5.0Ø	500m	30	200 #				PE	TO66	CØ
42#	2SA614	119m	15 Ø	§J	2.0 #	500m	80	7.0	60	1.0mØ	5.0Ø	500m	30	200 #				PE	TO66	CØ
43#	2SA652	120mØ	15 Ø	$	1.0		150	5.0	100	1.0mØ	5.0Ø	200m	40	200 #	5.0M§△			EM	TO66	CØ
44#	2SA653	120mØ	15 Ø	$	1.0		150	5.0	120	1.0mØ	5.0Ø	200m	40	200 #	5.0M§△			EM	TO66	CØ
45	MJ3738	133m	20 Ø	§J	250m	500m	250	6.0	225	100u♦	10Ø	100m	40	200 #	10M§△			△	TO86	CØ
46	MJ3739	133m	20 Ø	§J	250m	500m	325	6.0	300	100u♦	10Ø	100m	40	200 #	10M§△			△	TO86	CØ
47	STP40P	133mØ	2.0	§A	500m	100m	400	5.0	400	3.0m	10Ø	20m	20	250	20M§△	200	300m		MD14	
48	STP50P	133mØ	2.0	§A	500m	100m	500	5.0	500	4.0m	10Ø	20m	20	250	20M§△	200	300m		MD14	
49	STP60P	133mØ	2.0	§A	500m	100m	600	5.0	600	4.0m	10Ø	20m	20	250	20M§△	200	300m		MD14	
50	MM4020	142m	25 Ø	§J	1.0		36	4.0	18	50uØ	5.0Ø	250m	15						MT75a	R
51	STC5202	142m	25 Ø	§C	3.0		40	10	40		3.0Ø	1.0	20	60		300m		D△	TO8	
52	STC5203	142m	25 Ø	§C	3.0		60	10	60		3.0Ø	1.0	20	60		300m		D△	TO8	
53	STC5204	142m	25 Ø	§C	3.0		80	10	80		3.0Ø	1.0	20	60		300m		D△	TO8	
54	STC5205	142m	25 Ø	§C	2.0		40	10	40		3.0Ø	500m	20	60		800m		D△	TO8	
55	STC5206	142m	25 Ø	§C	2.0		60	10	60		3.0Ø	500m	20	60		800m		D△	TO8	
56	STC5207	142m	25 Ø	§C	2.0		80	10	80		3.0Ø	500m	20	60		800m		D△	TO8	
57	MM4545†	143m	25 Ø	§J	2.5		200	5.0	200	10u#	10Ø	10m	20		40M§△	2.0	50n	AN	TO37	AØ
58	MM4546†	143m	25 Ø	§J	2.5		300	5.0	300	10u#	10Ø	10m	20		40M§△	2.4	50n	AN	TO37	AØ
59	MM4547†	143m	25 Ø	§J	2.5		400	5.0	400	10u#	10Ø	10m	20		30M§△	3.0	50n	AN	TO37	AØ
60	SB0419	143m	25 Ø	§J	3.0 †	1.0	60 †	5.0†	60 ☑*	1.5m§♦	4.0Ø	1.5	20	130 #	1.0M§△			DME	TO66	CØ
61	SG0403	160m	24 Ø#	§J	2.0 †			5.5†	80 ☑*	10u§♦	5.0Ø	1.0	30	90 #	50M§△			DPL	TO59	A
62	SG0403A	160m	24 Ø#	§J	2.0 †			5.5†	80 ☑*	10u§♦	5.0Ø	1.0	70	300 #	50M§△			DPL	TO59	A
63	MM4021	166m	29 Ø	§J	2.5		36	4.0	18	100uØ	5.0Ø	500m	15						MT75a	R
64#	2SA616	200mØ	25 Ø	$	3.0		80	5.0	60	1.0mØ	5.0Ø	1.0	30	145 #	5.0M§△			EM	TO66	CØ
65	SE9560	200m#	20 Ø	§J	2.0			5.5	60	100u§	5.0Ø	1.0	30	90 #	50M§△			DPE	TO66	CØ
66	SE9561	200m#	20 Ø	§J	2.0			5.5	60	100u§	5.0Ø	1.0	70	300 #	60M§△			DPE	TO66	CØ
67	ST9001	200m	20		2.0		60	5.0	50	100u	10	500m	20	80	25M	3.0		ME	MT11	
68	SE9570	250m#	25 Ø	§J	2.0			5.5	60	100u§	5.0Ø	1.0	30	90 #	50M§△			DPE	TO3	CØ
69	SE9571	250m#	25 Ø	§J	2.0			5.5	60	100u§	5.0Ø	1.0	70	300 #	60M§△			DPE	TO3	CØ
70	SE9572	250m#	25 Ø	§J	2.0			5.5	80	10u§	5.0Ø	1.0	30	90 #	50M§△			DPE	TO3	CØ
71	SE9573	250m#	25 Ø	§J	2.0			5.5	80	10u§	5.0Ø	1.0	70	300 #	60M§△			DPE	TO3	CØ
72	SG0400	266m	40 Ø#	§J	5.0 †			5.0†	80 ☑*	10u§♦	5.0Ø	2.5	30	90 #	50M§△			DPE	TO59	A
73	SG0400A	266m	40 Ø#	§J	5.0 †			5.0†	80 ☑*	10u§♦	5.0Ø	2.5	70	300 #	60M§△			DPE	TO59	A
74#	BD272	285m	36 Ø	§J	4.0		55	7.0	45	100uØ	4.0Ø	500m	40		2.0M§	500m		†	X120	BØ
75#	BD274	285m	36 Ø	§J	4.0		80	7.0	60	100uØ	4.0Ø	500m	40		2.0M§	500m		†	X120	BØ
76#	BD276	285m	36 Ø	§J	4.0		100	7.0	80	100uØ	4.0Ø	500m	40		2.0M§	500m		†	X120	BØ
77	SDI445	288m	1.8	§A	4.0	2.0		5.0	40 ☑	1.0m#	4.0Ø	1.5	25	125		666m		DME†	Y220a	D
78	SDJ445	288m	1.8	§A	4.0	2.0		5.0	45 ☑	1.0m#	4.0Ø	2.0	20	100		550m		DME†	Y220a	D
79	SDK445	288m	1.8	§A	4.0	2.0		5.0	45 ☑	1.0m#	4.0Ø	2.5	20	100		480m		DME†	Y220a	D
80	SDL445	288m	1.8	§A	4.0	2.0		5.0	55 ☑	1.0m#	4.0Ø	2.5	20	100		480m		DME†	Y220a	D
81	SDM445	288m	1.8	§A	4.0	2.0		5.0	45 ☑	1.0m#	4.0Ø	200m	40	200		1.0		DME†	Y220a	D
82	SDN445	288m	1.8	§A	4.0	2.0		5.0	60 ☑	1.0m#	4.0Ø	300m	40	200		1.0		DME†	Y220a	D
83	SDP445	288m	1.8	§A	4.0	2.0		4.0	100 ☑	1.0m#	4.0Ø	500m	40	200		1.0		DME†	Y220a	D
84#	BD434A	300m	45 Ø	§J	4.0	1.0	20	5.0	20	100u	1.0Ø	500m	100	250	3.0M§△			E†	TO126	BØ
85#	BD434B	300m	45 Ø	§J	4.0	1.0	20	5.0	20	100u	1.0Ø	500m	160	400	3.0M§△			E†	TO126	BØ
86#	BD434C	300m	45 Ø	§J	4.0	1.0	20	5.0	20	100u	1.0Ø	500m	250	630	3.0M§△			E†	TO126	BØ
87#	BD436A	300m	45 Ø	§J	4.0	1.0	32	5.0	32	100u	1.0Ø	500m	100	250	3.0M§△			E†	TO126	BØ
88#	BD436B	300m	45 Ø	§J	4.0	1.0	32	5.0	32	100u	1.0Ø	500m	160	400	3.0M§△			E†	TO126	BØ
89#	BD436C	300m	45 Ø	§J	4.0	1.0	32	5.0	32	100u	1.0Ø	500m	250	630	3.0M§△			E†	TO126	BØ
90	RE3844	330m	50	J	4.0		36	4.0	18	1.0m	5.0	100m	10					PL		
91#	BLY65	333m#	50 Ø	§J	5.0		80	5.0	60	10u§	5.0Ø	5.0	20 #	50 Ø	80M§			DPE	TO59	A
92	FT400A	370m§	30 Ø	§J			80	5.0	80	100u§	5.0Ø	2.0	100	300	120M§			DPE	TO59	
93	FT400B	370m§	30 Ø	§J			80	5.0	80	100u§	5.0Ø	2.0	40	120	120M§			DPE	TO59	
94	MM4022	400m	70 Ø	§J	4.0		36	4.0	18	250uØ	5.0Ø	500m	15						MT75a	R
95	RE3845	400m	70	J	6.0		36	4.0	18	2.5m	5.0	500m	10					PL		
96	STC5109/I	400mØ	85 Ø	§C	3.0		40	10	40		3.0Ø	1.0	20	60		300m		D△	MS8	
97	STC5110/I	400mØ	85 Ø	§C	3.0		60	10	60		3.0Ø	1.0	20	60		300m		D△	MS8	
98	STC5111/I	400mØ	85 Ø	§C	3.0		80	10	80		3.0Ø	1.0	20	60		300m		D△	MS8	
99	STC5112/I	400mØ	85 Ø	§C	2.0		40	10	40		3.0Ø	500m	20	60		800m		D△	MS8	
100	STC5113/I	400mØ	85 Ø	§C	2.0		60	10	60		3.0Ø	500m	20	60		800m		D△	MS8	
101	STC5114/I	400mØ	85 Ø	§C	2.0		80	10	80		3.0Ø	500m	20	60		800m		D△	MS8	
102	STC5519/I	400mØ	85 Ø	§C	3.0		40	10	40		3.0Ø	1.0	20	60		300m		D△	MT10a	
103	STC5520/I	400mØ	85 Ø	§C	3.0		60	10	60		3.0Ø	1.0	20	60		300m		D△	MT10a	
104	STC5521/I	400mØ	85 Ø	§C	3.0		80	10	80		3.0Ø	1.0	20	60		300m		D△	MT10a	
105	STC5522/I	400mØ	85 Ø	§C	2.0		40	10	40		3.0Ø	500m	20	60		800m		D△	MT10a	
106	STC5523/I	400mØ	85 Ø	§C	2.0		60	10	60		3.0Ø	500m	20	60		800m		D△	MT10a	
107	STC5524/I	400mØ	85 Ø	§C	2.0		80	10	80		3.0Ø	500m	20	60		800m		D△	MT10a	
108	2P389	454m	85 Ø	§J	3.0			10	60	10m	15Ø	1.0	12	60	2.0k§	5.0		D△	MS3	
109	2P424	454m	85 Ø	§J	3.0			10	80	10m	15Ø	1.0	12	60	2.0k§	5.0		D△	MS3	
110#	2SA648	480m	60 Ø	§J	7.0	2.0	120	5.0	80	2.0mØ	5.0Ø	3.0	30 #	120 #	10M			EM	TO3	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SILICON PNP - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX T	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	MM4023	500m	87 Ø	§J	6.0		36	4.0	18	500uØ	5.0Ø	500m	15						MT75a	R
2	SCC421	511m	100 Ø	§A	10	4.0		5.0	60 ☑	1.0m#	4.0Ø	3.0	20	100		333m		DME	TO3	CØ
3	SC0421	660m	115 Ø	§J	10 †	4.0	60 †	5.0†	60 ☑	1.5m§♦	4.0Ø	5.0	20	140 #	1.0M§△			DME	TO3	CØ
4	TIXP07	666m$	3.0	§C	7.5	1.0	100	8.0	80	1.0u§	5.0Ø	2.0	20 #	90	10M§△	250m		PE	TO53	
5	SCD421	714m	125 Ø	§A	10	4.0		5.0	80 ☑	1.0m#	4.0Ø	4.0	20	100		250m		DME	TO3	CØ
6	JAN2N3789†	854m	150 Ø	§A	10	4.0	60	7.0	60	1.0mØ	2.0Ø	3.0	20	80 #	4.0M§△		1.5uØ		TO3	CØ
7	JAN2N3790†	854m	150 Ø	§A	10	4.0	60	7.0	80	1.0mØ	2.0Ø	3.0	20	80 #	4.0M§△		1.5uØ		TO3	CØ
8	SCE421	857m	150 Ø	§A	10	4.0		4.0	100 ☑	1.0m#	4.0Ø	4.0	20	100		250m		DME	TO3	CØ
9	SC0428	880m	150 Ø	§J	20 †	7.5	60 †	5.0†	60 ☑*	1.5m§♦	4.0Ø	10	15	90 #	1.0M§△			DME	TO3	CØ

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	CODE E A D
1	2N1839A		2.8 Ø		.15	15m	45	4.5	30 §	1.5uØ		.10	12	50	90M§	10			TO5	
2#	2SC15		1.0	§J	50m		30			1.0u	5.0	10m	60 Ø	†	200M†			ME	TO9	
3#	2SC140		1.7	§J	1.0		60			12u	10	50m	30 Ø	†	200M†			ME	TO9	
4#	2SC291		1.0	§J	3.0		70	5.0	40	3.0uØ	2.0Ø	1.0	40 Ø		90M§			PE	TO5	
5#	2SC292		1.0	§J	3.0		100	5.0	60	3.0uØ	2.0Ø	100m	70 Ø		90M§			PE	TO5	
6#	2SC293		1.0	§J	3.0		130	5.0	80	3.0uØ	2.0Ø	100m	70 Ø		90M§			PE	TO5	
7#	2SC608T		1.0		1.5 #		75	4.0	60	5.0m	4.0Ø	.10	10						MD25	
8#	2SC609T		1.0		1.5 #		75	4.0	60	5.0m	4.0Ø	.10	10						MD25	
9#	2SC664		50		5.0	1.5	100	5.0	5.0		5.0Ø	1.0	35	200	300k				TO3	
10#	2SC685		3.0 †		.10		300	3.0	300 §		10Ø	.05	30	150	20M§			TD	TO3	
11#	2SC806		125 Ø	§J	10	1.0	650	10		5.0mØ	3.0Ø	2.0	30 Ø		5.5k§	600m		D	TO3	Ø
12#	2SC807		125 Ø	§J	10	1.0	500	10	220	5.0mØ	3.0Ø	100	50 Ø		5.5k§	1.0		D	TO3	Ø
13#	2SC830		25 Ø		3.0		50	4.0	50		4.0Ø	1.0	35	200	20M§				TO66	
14#	2SC931		10 Ø	♦J	3.0		50	4.0	50	50u	2.0Ø	1.0	70 Ø		120M§			ME	X101	F
15#	2SC932		10 Ø	♦J	3.0		30	4.0	20	50u	2.0Ø	1.0	70 Ø		120M§			ME	X101	F
16#	2SC1002		10 Ø	§J	1.0		36	4.0	18	20uØ	2.0Ø	200m	10	250	700M§			PE	TO60	A
17#	2SC1003		20 Ø	§J	2.0		36	4.0	18	50uØ	2.0Ø	400	20	250	600k§			PE	TO60	A
18#	2SC1086		125 Ø	§J	4.0		1.0k	14		2.0mØ	3.0Ø	2.0	6.0		5.0M§	600m		DM	MD40a	C
19#	2SC1105		7.0 §	§J	100m		300	5.0	300	100uØ	10Ø	50m	40	200				ME	TO66	CØ
20#	2SC1122		30 Ø	§J	4.5	4.5 Ø	35	4.0	20	50u	5.0Ø	1.5	20	40 Ø	400M§			PE	MT83	V
21#	2SC1170A		50 Ø	§J	3.5		1.4k	5.0	500	10uØ	10Ø	3.0	5.0	30	4.0M§			ME	TO3	C
22#	2SC1296		50 Ø	§J	5.0		1.3k	6.0	400	100uØ	5.0Ø	3.5	4.0					D	TO3	CØ
23#	2SD67		50 Ø	§J	5.0		120	5.0	120 §	5.0m	5.0Ø	1.0	50 Ø		100M§			ME△	TO3	
24#	26T2C		2.5		100m		60	1.0		5.0u	10	5.0m	14 Ø	†	20M†					
25#	29T2C		2.5		100m		60	1.0		5.0u	10	5.0m	14 Ø	†	20M†					
26#	100T2		85 Ø						80	10mØ	12Ø	2.0	40 †	120 #	10k§	500m		PE	TO3	
27#	104T2		85 Ø						50	10mØ	12Ø	2.0	20 †	#		1.0		PE	TO3	
28	957		1.0	$	50m		60			6.0u			30 Ø							
29	958		1.0	$	50m		60			6.0u			90 Ø							
30#	BD533				4.0	1.0	45	5.0	45	100u	2.0	500m	40		3.0M				Y220b	
31#	BD535				4.0	1.0	60	5.0	60	100u	2.0	500m	40		3.0M				Y220b	
32#	BD537				4.0	1.0	80	5.0	80	100u	2.0	500m	40		3.0M				Y220b	
33#	BLY98		8.0 Ø		1.0		60	4.0	33		5.0Ø	500m	10	35 Ø	800M§	400M▼		PE	MT89	S
34#	BLY99		4.0		500m		30		15						900M§				TO39	A
35#	FT012		20 Ø	$S	2.0		60	6.0	40	250u	15Ø	50m	2.0	3.0 Ø	40M§△	6.0			TO36	Ø
36	PT896		1.6 Ø				45	5.0	50 §	.30mØ									TO5	
37	PT3691		20 Ø		.50		70	4.0	40				40	120						
38	PT5690		70 Ø		5.0		60	4.0	40				25	100						
39	RT1420M		3.0 Ø	§J			60	5.0	30 §	1.0uØ	10Ø	150 Ø	140 Ø		250M				TO46	
40#	RT3061		40		5.0		67		40						850M§			PE	MT108	R
41#	RT3062		40		5.0		65		35						850M§			PE	MT108	R
42#	RT3111		4.0		500m		30		15						900M§				TO39	A
43	TA6200		1.0				60	5.0		10uØ	5.0Ø	500m	80 Ø		60M§			PL		
44	XT515		2.8	§J	75m		120			1.0m	50	30m	5.0 Ø	†					D	
45	XT516		2.8	§J	75m		120			1.0m	50	30m	5.0 Ø	†					D	
46	XT517		2.8	§J	75m		120			1.0m	50	30m	5.0 Ø	†					D	
47	XT518		2.8	§J	75m		120			1.0m	50	30m	13 Ø	†					D	
48	XT519		2.8	§J	75m		120												D	
49	XT520		2.8	§J	75m		120												D	
50#	ZT2631		8.8 Ø	§J	1.5		80	4.0	60	100nØ					200M§				TO39	Ø
51	AMF201B	625u	85 Ø	§C	13			.50	80 Ø		15Ø	10	10		1.0M†	400m		ME	MD19	
52	AMF201C	625u	85 Ø	§C	13			.50	100 Ø		15Ø	10	10		1.0M†	400m		ME	MD19	
53	AMF201D	625u	85 Ø	§C	13			.50	130 Ø		15Ø	10	10		1.0M†	400m		ME	MD19	
54	AMF201E	625u	85 Ø	§C	13			.50	150 Ø		15Ø	10	10		1.0M†	400m		ME	MD19	
55	1768-0415	1.1m	200 Ø	§J	25	10	50	7.0	40 Ø	20m#	4.0Ø	15	20 #		40M§△			EM	TO63	
56	1768-0420	1.1m	200 Ø	§J	25	10	50	7.0	40 Ø	20m#	4.0Ø	20	20 #		40M§△			EM	TO63	
57	1768-0425	1.1m	200 Ø	§J	25	10	50	7.0	40 Ø	20m#	4.0Ø	25	10 #		40M§△			EM	TO63	
58	1768-0615	1.1m	200 Ø	§J	25	10	70	7.0	60 Ø	20m#	4.0Ø	15	20 #		40M§△			EM	TO63	
59	1768-0625	1.1m	200 Ø	§J	25	10	70	7.0	60 Ø	20m#	4.0Ø	25	10 #		40M§△			EM	TO63	
60	1768-0815	1.1m	200 Ø	§J	25	10	90	7.0	80 Ø	20m#	4.0Ø	15	20 #		40M§△			EM	TO63	
61	1768-0825	1.1m	200 Ø	§J	25	10	90	7.0	80 Ø	20m#	4.0Ø	25	10 #		40M§△			EM	TO63	
62	1768-1015	1.1m	200 Ø	§J	25	10	110	7.0	100 Ø	20m#	4.0Ø	15	20 #		40M§△			EM	TO63	
63	1768-1025	1.1m	200 Ø	§J	25	10	110	7.0	100 Ø	20m#	4.0Ø	25	10 #		40M§△			EM	TO63	
64	1768-1215	1.1m	200 Ø	§J	25	10	130	7.0	120 Ø	20m#	4.0Ø	15	20 #		40M§△			EM	TO63	
65	1768-1225	1.1m	200 Ø	§J	25	10	130	7.0	120 Ø	20m#	4.0Ø	25	10 #		40M§△			EM	TO63	
66	1768-1415	1.1m	200 Ø	§J	25	10	150	7.0	140 Ø	20m#	4.0Ø	15	20 #		40M§△			EM	TO63	
67	1768-1425	1.1m	200 Ø	§J	25	10	150	7.0	140 Ø	20m#	4.0Ø	25	10 #		40M§△			EM	TO63	
68	1776-0450	1.1m	200 Ø	§J	50	25	50	7.0	40 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO63	
69	1776-0650	1.1m	200 Ø	§J	50	25	70	7.0	60 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO63	
70	1776-0850	1.1m	200 Ø	§J	50	25	90	7.0	80 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO63	
71	1776-1050	1.1m	200 Ø	§J	50	25	110	7.0	100 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO63	
72	1776-1250	1.1m	200 Ø	§J	50	25	130	7.0	120 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO63	
73	1776-1450	1.1m	200 Ø	§J	50	25	150	7.0	140 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO63	
74#	BUY26†	1.6m	100 Ø*	#J	10	5.0	200	15	150	15m*	3.0Ø	2.0 Ø	13	17 Ø	10k§	93m	20u	A	MT76	AØ
75#	BUY27†	1.6m	100 Ø*	#J	10	5.0	360	25	250	15m*	3.0Ø	2.0 Ø	13	17 Ø	10k§	93m	20u	A	MT76	AØ
76#	BUY28†	1.6m	100 Ø*	#J	10	5.0	420	25	300	15m*	3.0Ø	2.0 Ø	13	17 Ø	10k§	93m	20u	A	MT76	AØ
77	1771-0440	1.7m	300 Ø	§J	50	25	50	7.0	40 Ø	20m#	5.0Ø	40	10 #		25M§△			EM	TO114	
78	1771-0450	1.7m	300 Ø	§J	50	25	50	7.0	40 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO114	
79	1771-0460	1.7m	300 Ø	§J	50	25	50	7.0	40 Ø	20m#	5.0Ø	60	10 #		25M§△			EM	TO114	
80	1771-0640	1.7m	300 Ø	§J	50	25	70	7.0	60 Ø	20m#	5.0Ø	40	10 #		25M§△			EM	TO114	
81	1771-0650	1.7m	300 Ø	§J	50	25	70	7.0	60 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO114	
82	1771-0660	1.7m	300 Ø	§J	50	25	70	7.0	60 Ø	20m#	5.0Ø	60	10 #		25M§△			EM	TO114	
83	1771-0840	1.7m	300 Ø	§J	50	25	90	7.0	80 Ø	20m#	5.0Ø	40	10 #		25M§△			EM	TO114	
84	1771-0850	1.7m	300 Ø	§J	50	25	90	7.0	80 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO114	
85	1771-0860	1.7m	300 Ø	§J	50	25	90	7.0	80 Ø	20m#	5.0Ø	60	10 #		25M§△			EM	TO114	
86	1771-1040	1.7m	300 Ø	§J	50	25	110	7.0	100 Ø	20m#	5.0Ø	40	10 #		25M§△			EM	TO114	
87	1771-1050	1.7m	300 Ø	§J	50	25	110	7.0	100 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO114	
88	1771-1060	1.7m	300 Ø	§J	50	25	110	7.0	100 Ø	20m#	5.0Ø	60	10 #		25M§△			EM	TO114	
89	1771-1240	1.7m	300 Ø	§J	50	25	130	7.0	120 Ø	20m#	5.0Ø	40	10 #		25M§△			EM	TO114	
90	1771-1250	1.7m	300 Ø	§J	50	25	130	7.0	120 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO114	
91	1771-1260	1.7m	300 Ø	§J	50	25	130	7.0	120 Ø	20m#	5.0Ø	60	10 #		25M§△			EM	TO114	
92	1771-1440	1.7m	300 Ø	§J	50	25	150	7.0	140 Ø	20m#	5.0Ø	40	10 #		25M§△			EM	TO114	
93	1771-1450	1.7m	300 Ø	§J	50	25	150	7.0	140 Ø	20m#	5.0Ø	50	10 #		25M§△			EM	TO114	
94	1771-1460	1.7m	300 Ø	§J	50	25	150	7.0	140 Ø	20m#	5.0Ø	60	10 #		25M§△			EM	TO114	
95	1771-1640	1.7m	300 Ø	§J	50	25	170	7.0	160 Ø	20m#	5.0Ø	40	10 #		25M§△			EM	TO114	
96	A203	5.0mØ	3.5 Ø	§J	400m		40	2.0	20	20u△	5.0Ø	100m	10	200	700M§	5.0		PE	TO39	AØ
97#	XC703	5.0m	*	§C	1.5	1.0	60	12	40	.01mØ	4.0Ø	.20	15	75	1.5M†	7.0	1.0u	D△	TO5	
98#	2SC816	5.5m	1.0	§J	1.0		60	4.0	30	10uØ	6.0Ø	100m	55	#	140M§			PE	TO5	AØ
99	SA6207	5.7mØ	1.0	§J	2.0 †			6.0†	80 Ø*	10u§	5.0Ø	1.0	30	90 #	50M§△			DPE	TO5	AØ
100	SA6207A	5.7mØ	1.0	§J	2.0 †			6.0†	80 Ø*	10u§	5.0Ø	1.0	70	300 #	60M§△			DPE	TO5	AØ
101	11CF1	6.0mØ	1.2	§J	1.0		60	5.0	250mØ	10uØ	10Ø	150mØ	100	300 #	130 §	1.7	70n	PE△	MD14	
102	11CF2	6.0mØ	1.2	§J	1.0		60	5.0	350mØ	10uØ	10Ø	150mØ	100	300 #	130 §	1.7	70n	PE△	MT20	
103	11CF3	6.0mØ	1.2	§J	1.0		80	8.0	250mØ	10uØ	10Ø	150mØ	40	120 #	130 §	1.7	70n	PE△	MT20	
104#	2SD120	6.6mØ	1.0	§J	1.5	1.0	60	12	40	10u	4.0Ø	200m	15	100	24k	5.0		D	TO5	
105#	2SD121	6.6mØ	1.0	§J	1.5	1.0	100	12	55	10u	4.0Ø	200m	15	100	24k	5.0		D	TO5	
106	11CF4	6.6mØ	1.2	§J	1.0		80	8.0	350mØ	10uØ	10Ø	150 Ø	40	120 #	130 §	1.7	70n	PE△	MT20	
107	11CF5	6.6mØ	1.2	§J	1.0		60	5.0	250mØ	10uØ	10Ø	150 Ø	20	60 #	130 §	1.7	70n	PE△	MT20	
108	11CF6	6.6mØ	1.2	§J	1.0		60	5.0	350mØ	10uØ	10Ø	150 Ø	20	60 #	130 §	1.7	70n	PE△	MT20	
109	11CF7	6.6mØ	1.2	§J	1.0		45	5.0	250mØ	100uØ	10Ø	150 Ø	20 #		130 §	1.7	70n	PE△	MT20	
110	11CF8	6.6mØ	1.2	§J	1.0		45	5.0	350mØ	100uØ	10Ø	150 Ø	20 #		130 §	1.7	70n	PE△	MT20	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1#	81T2	6.6m	1.0	§J			50	4.0	50 §	100nØ	2.0	400m	8.0	25 Ø	250M§	1.2		PE	TO5	AØ
2	40355	6.6m	1.0	§J	50m			5.0	150	100nØ	10Ø	10m	55 Ø		100M§△				R115	G
3	A249	6.6mØ	2.5	§J	250m		65	4.0	36		5.0Ø	250m	50 Ø		1.3G§	30m		PL	u57	R
4	A298	6.6mØ	2.5	§J	250m		36	4.0	18		6.0Ø	50m	35 Ø		1.0G§	3.0m		PL	u57	R
5	MT1070	6.6m	1.5 Ø	§J	80m		30	4.0	14 Ø	50nØ	5.0Ø	5.0m	40	185	1.5G§			PE	X77	AØ
6	TIS82†	6.6mØ	1.0	§	1.2		60	5.0	40	500nØ	5.0Ø	1.0	25 Ø		250M§△			PE	TO5	
7	TRL2014	6.6mØ	1.0	§S	3.0	1.0	200	4.0	200 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
8	TRL2254S	6.6mØ	1.0	§S	3.0	1.0	250	4.0	225	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
9	TRL2504	6.6mØ	1.0	§S	3.0	1.0	250	4.0	250 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
10	TRL2504S	6.6mØ	1.0	§S	3.0	1.0	275	4.0	250	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
11	TRL2754S	6.6mØ	1.0	§S	3.0	1.0	300	4.0	275	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
12	TRL3014	6.6mØ	1.0	§S	3.0	1.0	300	4.0	300 §	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
13	TRL3014S	6.6mØ	1.0	§S	3.0	1.0	325	4.0	300	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
14	TRL3504	6.6mØ	1.0	§S	3.0	1.0	350	4.0	350 §	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
15	TRL4014	6.6mØ	1.0	§S	3.0	1.0	400	4.0	400 §	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
16	TRL4014S	6.6mØ	1.0	§S	3.0	1.0	425	4.0	400	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
17	TRL4504	6.6mØ	1.0	§S	3.0	1.0	450	4.0	450 §	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
18	TRL5014	6.6mØ	1.0	§S	3.0	1.0	500	4.0	500 §	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
19	TRL5014S	6.6mØ	1.0	§S	3.0	1.0	525	4.0	500	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
20	TRL5504	6.6mØ	1.0	§S	3.0	1.0	550	4.0	550 §	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
21	TRL6014	6.6mØ	1.0	§S	3.0	1.0	600	4.0	600 §	10m	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
22	TRL6504	6.6mØ	1.0	§S	3.0	1.0	650	4.0	650 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
23	TRL7014	6.6mØ	1.0	§S	3.0	1.0	700	4.0	700 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
24	TRL7504	6.6mØ	1.0	§S	3.0	1.0	750	4.0	750 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
25	TRL8014	6.6mØ	1.0	§S	3.0	1.0	800	4.0		10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	TO5	
26	TRM2014	6.6mØ	1.0	§S	3.0	1.0	200	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400m	DM	TO5	
27	TRM2254S	6.6mØ	1.0	§S	3.0	1.0	250	6.0	225	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
28	TRM2504	6.6mØ	1.0	§S	3.0	1.0	250	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
29	TRM2504S	6.6mØ	1.0	§S	3.0	1.0	275	6.0	250	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
30	TRM2754S	6.6mØ	1.0	§S	3.0	1.0	300	6.0	275	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
31	TRM3014	6.6mØ	1.0	§S	3.0	1.0	300	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
32	TRM3014S	6.6mØ	1.0	§S	3.0	1.0	325	6.0	300	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
33	TRM3504	6.6mØ	1.0	§S	3.0	1.0	350	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
34	TRM3514S	6.6mØ	1.0	§S	3.0	1.0	375	6.0	350	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
35	TRM4014	6.6mØ	1.0	§S	3.0	1.0	400	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
36	TRM4014S	6.6mØ	1.0	§S	3.0	1.0	425	6.0	400	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
37	TRM4504	6.6mØ	1.0	§S	3.0	1.0	450	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
38	TRM5014	6.6mØ	1.0	§S	3.0	1.0	500	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
39	TRM5014S	6.6mØ	1.0	§S	3.0	1.0	525	6.0	500	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
40	TRM5504	6.6mØ	1.0	§S	3.0	1.0	550	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
41	TRM6014	6.6mØ	1.0	§S	3.0	1.0	600	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
42	TRM6504	6.6mØ	1.0	§S	3.0	1.0	650	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
43	TRM7014	6.6mØ	1.0	§S	3.0	1.0	700	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	TO5	
44	TRM7504	6.6mØ	1.0	§S	3.0	1.0	750	6.0		3.0u	10Ø	1.0	10	15 Ø	20M§△			DM	TO5	
45	TRM8014	6.6mØ	1.0	§S	3.0	1.0	800	6.0	800 §	3.0u	10Ø	1.0	10	15 Ø	20M§△			DM	TO5	
46	11CB1	6.7mØ	15	§J	1.0		60	5.0	.25 Ø	.01mØ	10Ø	150 Ø	100 #	300	.13k§	2.3	.07u	PE△	MD14	
47	11CB2	6.7mØ	15	§J	1.0		60	5.0	.35 Ø	.01mØ	10Ø	150 Ø	100 #	300	.13k§	2.3	.07u	PE△	MD14	
48	11CB3	6.7mØ	15	§J	1.0		80	8.0	.25 Ø	.01mØ	10Ø	150 Ø	40 #	120	.13k§	2.3	.07u	PE△	MD14	
49	11CB4	6.7mØ	15	§J	1.0		80	8.0	.35 Ø	.01mØ	10Ø	150 Ø	40 #	120	.13k§	2.3	.07u	PE△	MD14	
50	11CB5	6.7mØ	15	§J	1.0		60	5.0	.25 Ø	.01mØ	10Ø	150 Ø	20 #	60	.13k§	2.3	.07u	PE△	MD14	
51	11CB6	6.7mØ	15	§J	1.0		60	5.0	.35 Ø	.01mØ	10Ø	150 Ø	20 #	60	.13k§	2.3	.07u	PE△	MD14	
52	11CB7	6.7mØ	15	§J	1.0		45	5.0	.25 Ø	.10mØ	10Ø	150 Ø	20 #		.13k§	2.3	.07u	PE△	MD14	
53	11CB8	6.7mØ	15	§J	1.0		45	5.0	.35 Ø	.10mØ	10Ø	150 Ø	20 #		.13k§	2.3	.07u	PE△	MD14	
54	TRL3514S	6.7mØ	1.0 §	S	3.0	1.0	375	4.0	350	.01m	10Ø	.50	15	35 Ø	20M§△		.40u	DM	TO5	
55	NS9001†	6.9m	1.2	§J	5.0	500m	100	8.0	80	200nØ	5.0Ø	1.0	30	350 #	20M§△	600m	250u†Ø	PL	TO39	AØ
56	7C13	8.0mØ	1.0	§J			120	10	60		10Ø	200	75	200	20M†				R45	
57	7E13	8.0mØ	1.0	§J			120	10	60		10Ø	200	75	200	20M†				MT19	
58	7F13	8.0mØ	1.0	§J			120	10	60		10Ø	200	75	200	20M†				MT20	
59	D7D13	8.0m	1.0	§J			120	10	60		10Ø	200	75	200	20M†				R46	
60	AT301	10m	1.7 Ø	§J	200m		20	3.0	15	20nØ	10Ø	35m	20	50 Ø	3.5G§			PEØ	u77e	Y
61	AT320	10m	1.7 Ø	§J	100m		20	3.0	15	20nØ	10Ø	35m	20		3.5G§			PE	u77e	GA
62#	XC713	10m		§C	3.0	1.5	60	12	40	.01mØ	4.0Ø	.75	15	75	1.2M†	2.7	1.0u	D	TO8	
63#	ZT50	10mØ		§			20	6.0	20		6.0	100	20		120M§	2.7		PLE	TO8	
64#	2SC147	11mØ	1.7	§J	1.0		30			100u	10	50	24 Ø		120k§			ME	TO9	
65	ST6510	11mØ		§			20		20 §		10Ø	.15	20						TO5	
66	ST6511	11mØ		§			40		20 §		10Ø	.15	20	60					TO5	
67	ST6512	11mØ		§			40		20 §		10Ø	.15	40	120					TO5	
68	ST7200	11m	45 Ø$	§A	5.0	5.0	80	4.0	80	20mØ	15Ø	1.0	12 #		8.0M†	6.0		ME	TO61	
69	7G13	12mØ	1.5	§J			120	10	60		10Ø	200	75	200	20M†				MT20	
70#	80T2	13m	2.0	§J			50	4.0	50 §	100nØ	2.0	400m	8.0	25 Ø	250M§	1.2		PE	TO8	AØ
71	B3746	13m$	1.0	§J	800m						10Ø	10m	20						TO18	A
72	TRL4015S	13mØ	2.0	§S	3.0	1.0	425	4.0	400	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
73	TRL4505	13mØ	2.0	§S	3.0	1.0	450	4.0	450 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
74	TRL5015	13mØ	2.0	§S	3.0	1.0	500	4.0	500 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
75	TRL5015S	13mØ	2.0	§S	3.0	1.0	525	4.0	500	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
76	TRL5505	13mØ	2.0	§S	3.0	1.0	550	4.0	550 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
77	TRL6015	13mØ	2.0	§S	3.0	1.0	600	4.0	600 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
78	TRL6505	13mØ	2.0	§S	3.0	1.0	650	4.0	650 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
79	TRL7015	13mØ	2.0	§S	3.0	1.0	700	4.0	700 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
80	TRL7505	13mØ	2.0	§S	3.0	1.0	750	4.0	750 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
81	TRL8015	13mØ	2.0	§S	3.0	1.0	800	4.0	800 §	10u	10Ø	500m	15	35 Ø	20M§△		400n	DM	MD14	
82	TRM2015	13mØ	2.0	§S	3.0	1.0	200	6.0	200 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
83	TRM2255S	13mØ	2.0	§S	3.0	1.0	250	6.0	225	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
84	TRM2505	13mØ	2.0	§S	3.0	1.0	250	6.0	250 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
85	TRM2505S	13mØ	2.0	§S	3.0	1.0	275	6.0	250	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
86	TRM2755S	13mØ	2.0	§S	3.0	1.0	300	6.0	275	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
87	TRM3015	13mØ	2.0	§S	3.0	1.0	300	6.0	300 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
88	TRM3015S	13mØ	2.0	§S	3.0	1.0	325	6.0	300	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
89	TRM3505	13mØ	2.0	§S	3.0	1.0	350	6.0	350 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
90	TRM3515S	13mØ	2.0	§S	3.0	1.0	375	6.0	350	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
91	TRM4015	13mØ	2.0	§S	3.0	1.0	400	6.0	400 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
92	TRM4015S	13mØ	2.0	§S	3.0	1.0	425	6.0	400	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
93	TRM4505	13mØ	2.0	§S	3.0	1.0	450	6.0	450 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
94	TRM5015	13mØ	2.0	§S	3.0	1.0	500	6.0	500 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
95	TRM5015S	13mØ	2.0	§S	3.0	1.0	525	6.0	500	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
96	TRM6015	13mØ	2.0	§S	3.0	1.0	600	6.0	600 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
97	TRM6505	13mØ	2.0	§S	3.0	1.0	650	6.0	650 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
98	TRM7015	13mØ	2.0	§S	3.0	1.0	700	6.0	700 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
99	TRM7505	13mØ	2.0	§S	3.0	1.0	750	6.0	750 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
100	TRM8015	13mØ	2.0	§S	3.0	1.0	800	6.0	800 §	3.0u	10Ø	1.0	10	15 Ø	20M§△		400n	DM	MD14	
101	USA55191/33†	13m	2.3	§J	600m		60	5.0	40	1.0uØ	4.0Ø	250m	19 #		50M§△		150nØ			
102	USA55191/34†	13m	2.3	§J	600m		120	5.0	80	1.0uØ	10Ø	150m	40 #		50M§△	27	300nØ			
103	2N6135	14m	2.5 Ø	§S	250m		35	3.5	25	10uØ	18Ø	80m	25	300	1.1G§△				MT102	R
104#	2SC117†	14m	2.0	§J	600m		75	5.0	50	5.0uØ	15Ø	30m	10 Ø	†	60M§			D	TO8	Ø
105#	2SC118	14m	2.0	§J	600m		80	5.0		5.0uØ	15Ø	30m	10 Ø	†	70M§			PL	TO8	Ø
106#	2SC119	14m	2.0	§J	600m		75	5.0		5.0uØ	15Ø	30m	10 Ø	†	70M§			PE	TO8	Ø
107	7B13	15mØ	2.0	§J			120	10	60		10Ø	200	75	200	20M†				MD14	
108#	BC140C	16m	3.0 Ø	§J	1.0		80	7.0	40	1.0uØ	1.0Ø	150m	40	120	60M§			PL	TO5	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	COEADE
1#	BC140D	16m	3.0 Ø	§J	1.0		80	7.0	40	1.0uØ	1.0Ø	150m	100	300	60M§			PL	TO5	
2	RT5001	16m	3.0 Ø	§J			60	5.0		1.0uØ	10Ø	300m	40 Ø	#				ME	TO5	
3	RT5002	16m	3.0 Ø	§J			60	5.0		1.0uØ	10Ø	300m	80 Ø	#				PL	TO5	
4	RT5003	16m	3.0 Ø	§J			100	5.0		1.0u	10Ø	300m	40 Ø	#				ME	TO5	
5	RT5004	16m	3.0 Ø	§J			100	5.0		1.0u	10Ø	300m	80 Ø	#				ME	TO5	
6	11C1F1	17m§	1.2	§J	1.0		60	5.0	40	10nØ	10Ø	150m	100	300	50k§Δ	2.3	70n	PE	MT20	
7	11C3F1	17m§	1.2	§J	1.0		80	8.0	50	10nØ	10Ø	150m	40	120	50k§Δ	2.3	70n	PE	MT20	
8	11C5F1	17m§	1.2	§J	1.0		60	5.0	40	10nØ	10Ø	150m	20	60	50k§Δ	2.3	70n	PE	MT20	
9	11C10F1	17m§	1.2	§J	1.0		120	7.0	80	10nØ	10Ø	150m	40	120	50k§Δ	2.3	70n	PE	MT20	
10	11C11F1	17m§	1.2	§J	1.0		60	5.0	40	10nØ	10Ø	150m	40	120	50k§Δ	2.3	70n	PE	MT20	
11#	BF109	17m	2.5		.04	.01	135	2.0	135		10	.01 Δ	20		1.0M			ME	TO5	
12	D11C7F1	17m§	1.2	§J	1.0		45	5.0	25	10nØ	10Ø	150m	20		50k§Δ	2.3	70n	PE	MT20	
13#	XB434	17m	3.0 Ø	§J	800m	200m	36	4.0	18						900M§			PE	TO117	
14#	XB473	17m	3.0 Ø	§J	800m	200m	55	4.0	30						900M§			PE	TO131	
15#	XB474	17m	3.0 Ø	§J	800m	200m	55	4.0	30						900M§			PE	TO117	
16	D11C1F1	18m	1.1	§A				5.0	40	15u	10Ø	150m	100	300	130k§	1.7		PE	MT62	
17	D11C3F1	18m	1.1	§A				8.0	50	25u	10Ø	150m	40	120	130k§	1.7		PE	MT62	
18	D11C5F1	18m	1.1	§A				5.0	40	25u	10Ø	150m	20		130k§	1.7		PE	MT62	
19	D11C10F1	18m	1.1	§A				7.0	80 §	15u	10Ø	150m	40	120	130k§	1.7		PE	MT62	
20	D11C11F1	18m	1.1	§A				5.0	40 §	15u	10Ø	150m	40	120	130k§	1.7		PE	MT62	
21	3TE260	20m	3.0 Ø	§J	600m		80	4.0	80	10uØ	5.0Ø	500m	10	60 #				DPE	TO5	
22	35830A	20m	2.0	§J	100m		20	1.5	20	10uØ	15Ø	150uØ	15	125 †	3.5G§				u108	T
23	35833B	20m	2.0	§J	100m		20	1.5	20	10uØ	15Ø	150uØ	15	125 †	6.0GØ				u109	E
24	35833E	20m	2.0	§J	100m		20	1.5	20	10uØ	15Ø	150uØ	15	125 †	6.0GØ				u109	F
25	35834B	20m	2.0	§J	100m		20	1.5	20	10uØ	15Ø	150uØ	15	125 †	6.0GØ				MT97	E
26	35834E	20m	2.0	§J	100m		20	1.5	20	10uØ	15Ø	150uØ	15	125 †	6.0GØ				MT97	F
27	40450†	20m	1.0	§J			30	7.5	25	100nØ	10Ø	10m	100	200	175M§	1.2	50m	PE	R119	
28	40451†	20m	1.0	§J			40	8.0	40	10nØ	10Ø	10m	125	300	175M§	1.0	50m	PEØ	R119	
29	40452	20m	1.0	§J	300m	300mØ		8.0	40	10n	10Ø	10m	75	300	80M§☑	1.0		PE	R119	
30	40453	20m	1.0	§J	200m	25m		7.5	25	100n	10Ø	10m	165	600	80M§☑	1.2		PE	R119	
31	40454	20m	1.0	§J	200m	25m		7.5	25	100n	10Ø	10m	75	300	80M§☑	1.2		PE	R119	
32	40455	20m	1.0	§J	200m	25m		7.0	18	500n	10Ø	10m	165	600	80M§☑	2.0		PE	R119	
33	40456	20m	1.0	§J	200m	25m		7.0	18	500n	10Ø	10m	75	300	80M§☑	2.0		PE	R119	
34	40628	20mØ	3.5	§A	1.0			7.0	55 ☑	250n	10Ø	150m	100	300					X84	A
35	B3747	20m§	1.5 §	§J	800m				25										MT27	
36	B3748	20m§	1.5 §	§J	800m				25										MT27	
37#	BLY38	20m	5.0	§J			36	4.0	18		5.0Ø	500mØ	50 Ø		1.3G§	500m		PL	X63a	R
38	MST10	20m	1.0	§A	350m	100m	100	5.0	100 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
39	MST15	20m	1.0	§A	350m	100m	150	5.0	150 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
40	MST20	20m	1.0	§A	350m	100m	200	5.0	200 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
41	MST25	20m	1.0	§A	350m	100m	250	5.0	250 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
42	MST30	20m	1.0	§A	350m	100m	300	5.0	300 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
43	MST35	20m	1.0	§A	350m	100m	350	5.0	350 §	3.0uØ	10Ø	55m	30	55 Ø	40M§	25		DM	TO5	
44	MST40	20m	1.0	§A	350m	100m	400	5.0	400 §	4.0uØ	10Ø	45m	30	55 Ø	40M§	30		DM	TO5	
45	MST45	20m	1.0	§A	350m	100m	450	5.0	450 §	4.0uØ	10Ø	45m	30	55 Ø	40M§	30		DM	TO5	
46	MST50	20m	1.0	§A	300m	100m	500	5.0	500 §	6.0uØ	10Ø	25m	30	55 Ø	40M§	55		DM	TO5	
47	MST55	20m	1.0	§A	300m	100m	550	5.0	550 §	6.0uØ	10Ø	25m	30	55 Ø	40M§	60		DM	TO5	
48	MST60	20m	1.0	§A	300m	100m	600	5.0	600 §	8.0uØ	10Ø	25m	30	55 Ø	40M§	60		DM	TO5	
49	MST65	20m	1.0	§A	300m	100m	650	5.0	650 §	8.0uØ	10Ø	25m	30	55 Ø	40M§	60		DM	TO5	
50	MST70	20m	1.0	§A	250m	100m	700	5.0	700 §	10uØ	10Ø	25m	30	55 Ø	40M§	65		DM	TO5	
51	MST75	20m	1.0	§A	250m	100m	750	5.0	750 §	10uØ	10Ø	22m	30	55 Ø	40M§	73		DM	TO5	
52	MST80	20m	1.0	§A	200m	50m	800	5.0	800 §	12uØ	10Ø	22m	25	50 Ø	40M§	73		DM	TO5	
53	MST85	20m	1.0	§A	200m	50m	850	5.0	850 §	12uØ	10Ø	20m	25	50 Ø	40M§	80		DM	TO5	
54	MST90	20m	1.0	§A	200m	50m	900	5.0	900 §	15uØ	10Ø	20m	25	50 Ø	40M§	80		DM	TO5	
55	MST95	20m	1.0	§A	150m	50m	950	5.0	950 §	15uØ	10Ø	15m	25	50 Ø	40M§	100		DM	TO5	
56	MST100	20m§	2.0 Ø	§J			1.0k	5.0	1.0k§	12uØ	10Ø	20m	30		40k§	90		D	TO5	
57#	2S017	22m	2.0	§A	400m		60	8.0	60	100u	10Ø	200m	12	36	4.7M§	15		D	TO5	
58#	2S018	22m	2.0	§A	400m		100	8.0	100	100u	10Ø	200m	12	36	4.7M§	15		D	TO5	
59#	2S019	22m	2.0	§A	400m		60	8.0	60	100u	10Ø	200m	30	90	4.7M§	10		D	TO5	
60#	2S020	22m	2.0	§A	400m		100	8.0	100	100u	10Ø	200m	30	90	4.7M§	10		D	TO5	
61	A245	22m	4.0 Ø	§J			40	4.0	25		5.0Ø	500m	10		400M§			PE	MT72d	R
62	MHT4401	22m	4.0 Ø	§J	500m		60	5.0	60	1.0uØ	4.0Ø	150m	20	120 #	80M	2.0		E△	TO5	
63	MHT4402	22m	4.0 Ø	§J	500m		120	5.0	100	2.0uØ	4.0Ø	150m	20	120 #	80M	4.0		E△	TO5	
64	MHT4411	22m	4.0 Ø	§J	500m		60	5.0	40	1.0uØ	4.0Ø	150m	20	60	80M	2.0		E	TO5	
65	MHT4412	22m	4.0 Ø	§J	500m		60	5.0	40	1.0uØ	4.0Ø	150m	40	120	80M	2.0		E	TO5	
66	MHT4413	22m	4.0 Ø	§J	500m		60	5.0	40	1.0uØ	4.0Ø	150m	100		80M	2.0		E	TO5	
67	MHT4414	22m	4.0 Ø	§J	500m		80	5.0	60	1.0uØ	4.0Ø	150m	20	60	80M	3.0		E	TO5	
68	MHT4415	22m	4.0 Ø	§J	500m		80	5.0	60	1.0uØ	4.0Ø	150m	40	120	80M	3.0		E	TO5	
69	MHT4416	22m	4.0 Ø	§J	500m		80	5.0	60	1.0uØ	4.0Ø	150m	100		80M	3.0		E	TO5	
70	MHT4417	22m	4.0 Ø	§J	500m		120	5.0	80	2.0uØ	4.0Ø	150m	20	60	80M	4.0		E	TO5	
71	MHT4418	22m	4.0 Ø	§J	500m		120	5.0	80	2.0uØ	4.0Ø	150m	40	120	80M	4.0		E	TO5	
72	MHT4419	22m	4.0 Ø	§J	500m		120	5.0	80	2.0uØ	4.0Ø	150m	100		80M	4.0		E	TO5	
73	3TE160	23m	3.0	§J	600m		90	5.0	80	10uØ	5.0Ø	500m	10	80	200M§	1.0		PE	TO5	
74#	BFX49	25m	2.5	§J	250m	700m#	65	4.0	36		5.0Ø	100m	10	25 Ø	1.3G§	5.0		PL	MT72j	R
75#	BFY99	25m	4.4 Ø	§J	1.0		65	4.0	40	100uΔ					500M§			PL	TO5	
76	S3006	25m	5.0	§J	400m		40	3.5	30	20uΔ	5.0	50m	10	200	1.4G§				MT66	R
77#	V643	25mØ	3.7 Ø	§J	400m#		40	3.0	20	100uØ	10Ø	70m	20 #	200 #	2.0G§Δ			PE†	MT72f	S
78	MST5404	26m	1.0	§A	400m	200m	650	5.0	540	10u	10Ø	100m	20		50M§Δ	60		DM	TO5	
79	MST6604	26m	1.0	§A	400m	200m	800	5.0	660	10u	10Ø	100m	20		50M§Δ	60		DM	TO5	
80	2N3053A	28m	5.0 Ø	§S	700m		80	7.0	60		2.5Ø	150m	25		100M§Δ	2.0		Δ	TO5	AØ
81	2N3309A	28m	5.0 Ø	§C	500m	100m	60	4.0	60 Ø	500nØ	2.0Ø	75m	5.0	100	300M§				TO39	Ø
82	2N3374	28m	5.0 Ø	§J	500m	200m	80	4.0	80	50nØ	28Ø	170m	10 #		230M§Δ	2.0			TO5	AØ
83	2N5922	28m	5.0 Ø	§S	425m		55 †	3.5†	35	4.0m§†									MT75d	R
84#	2SC700	28m	5.0 Ø	§J	750m		60	3.0	40	100uØ	10Ø	100m	5.0		300M§			PE	TO39	AØ
85#	2SC701	28m	5.0 Ø	§J	750m		40	3.0	25	100uØ	15Ø	50m	15	100	500M§			PE	TO39	
86#	2SC1256	28m§	3.0 §	§J	500m		36	4.0	18	1.0uØ	10Ø	300m	20 #		500M§Δ			E	TO39	A
87	11C1B1	28m§	1.5	§J	1.0		60	5.0	40	10nØ	10Ø	150m	100	300	50k§Δ	2.3	70n	PE	MD14	
88	11C3B1	28m§	1.5	§J	1.0		80	8.0	50	10nØ	10Ø	150m	40	120	50k§Δ	2.3	70n	PE	MD14	
89	11C5B1	28m§	1.5	§J	1.0		60	5.0	40	10nØ	10Ø	150m	20	60	50k§Δ	2.3	70n	PE	MD14	
90	11C10B1	28m§	1.5	§J	1.0		120	7.0	80	10nØ	10Ø	150m	40	120	50k§Δ	2.3	70n	PE	MD14	
91	11C11B1	28m§	1.5	§J	1.0		60	5.0	40	10nØ	10Ø	150m	40	120	50k§Δ	2.3	70n	PE	MD14	
92	A213	28m	1.2	§J	150m		40	2.0	30		5.0	150m	25 #		1.0G§			PE	MT59	R
93	A238	28m	5.0 Ø	§J	800m	2.0 Ø	36	4.0	18		5.0Ø	250m	10	70 Ø	1.0G§	2.0		PL	MT59h	R
94	A267	28m	5.0 Ø	§J	1.5		65	4.0	36		5.0Ø	250m	10		1.0G§	2.0		PE	MT59h	R
95	BFR83	28m	5.0 Ø	§J	200m		40	3.5	25	10uØ	5.0Ø	150m	25		1.4G§	7.5		PE	MT89	R
96#	BSS43†	28m	1.0	§J	1.5	200m	150	6.0	150 *	100nØ	5.0Ø	10m	35	50 Ø	100M§		40nØ	PE	TO39	AØ
97#	BSX62B	28m	4.3 Ø	§J	2.0		60	5.0	40		2.0Ø	1.0	30	90	50M§			PE△	TO5	
98#	BSX62C	28m	4.3 Ø	§J	2.0		60	5.0	40		2.0	1.0	50	150	50M§			PE△	TO5	
99#	BSX62D	28m	4.3 Ø	§J	2.0		60	5.0	40		2.0	1.0	100	300	50M§			PE△	TO5	
100#	BSX63B	28m	4.3 Ø	§J	2.0		80	5.0	60		2.0Ø	1.0	30	90	50M§			△	TO5	
101#	BSX63C	28m	4.3 Ø	§J	2.0		80	5.0	60		2.0	1.0	50	150	50M§			PE△	TO5	
102	D11C1B1	28m	1.5	§A				5.0	40	15u	10Ø	150m	100	300	130k§	1.7		PE	MD14	
103	D11C3B1	28m	1.5	§A				8.0	50	25u	10Ø	150m	40	120	130k§	1.7		PE	MD14	
104	D11C5B1	28m	1.5	§A				5.0	40	25u	10Ø	150m	20		130k§	1.7		PE	MD14	
105	D11C7B1	28m§	1.5	§J	1.0		45	5.0	25	10nØ	10Ø	150m	20		50k§Δ	2.3	70n	PE	MD14	
106	D11C10B1	28m	1.5	§A				7.0	80 §	15u	10Ø	150m	40	120	130k§	1.7		PE	MD14	
107	D11C11B1	28m	1.5	§A				5.0	40 §	15u	10Ø	150m	40	120	130k§	1.7		PE	MD14	
108	D11C201B20	28m	1.0	§A				5.0	40	15u	10Ø	150m	100	300	130k§	1.7		PE	MD30	
109	D11C203B20	28m	1.0	§A				8.0	50	25u	10Ø	150m	40	120	130k§	1.7		PE	MD30	
110	D11C205B20	28m	1.0	§A				5.0	40	25u	10Ø	150m	20	60	130k§	1.7		PE	MD30	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	D11C207B20	28m$	1.0	$J	1.0		45	5.0	25	10nØ	10Ø	150m	20		50k§△	2.3	70n	PE	MD20	
2	D11C210B20	28m$	1.0	$A				7.0	80 §	15u	10Ø	150m	40	120	130k§	1.6		PE	MD30	
3	D11C211B20	28m$	1.0	$A				5.0	40 §	15u	10Ø	150m	40	120	130k§	1.6		PE	MD30	
4#	DC5501	28m	5.0	$J	500m			4.0	55	500m					1.5G§				MT66b	R
5#	DC6112B	28m	5.0	$	200m		50	3.5		200m					2.5G§				X111a	U
6	MM2193A†	28m	1.0	$J	1.0		80	8.0	50	10nØ	10Ø	150m	40	120	50M§△	1.6	70nØ	AN	TO39	A
7	MM2261†	28m	1.0	$J	1.0		60	5.0	50	500nØ	10Ø	50m	40	200	100M§△	3.3	1.0u	AN	TO5	AØ
8	MM2262†	28m	1.0	$J	1.0		100	5.0	100	500nØ	10Ø	50m	60	300	100M§△	2.0	1.0u	AN	TO5	AØ
9	MM2263†	28m	1.0	$J	1.0		150	5.0	150	500nØ	10Ø	50m	40	200	100M§△	1.3	1.0u	AN	TO5	AØ
10	MM3724†	28m	1.0	$J	1.5			6.0	30	500nØ	2.0Ø	500m	25	150	200M§△	900m		AN	TO5	AØ
11	MM3725†	28m	1.0	$J	1.5			6.0	50	500nØ	2.0Ø	500m	25	150	200M§△	900m		AN	TO5	AØ
12	MM4429	28m	5.0 Ø	$J	250m		55	3.5	35	100u	15Ø	50m	20	200	600M§△				MT75	R
13	MM4430	28m	5.0 Ø	$J	250m		55	3.5	35	100u	15Ø	50m	20	200	600M§△				MT75	R
14	NS949†	28m	1.0	$A	1.0		60	5.0	45 *	100nØ	2.0Ø	150m	40	150 #	200M§△	2.3	60nØ	E	TO46	A
15	NS950†	28m	1.0	$A	1.0		75	5.0	60 *	100nØ	2.0Ø	150m	40	150 #	200M§△	2.3	60nØ	E	TO46	A
16	PT3501	28m	5.0 Ø	$J	750m		40	3.0	25	100uØ	15Ø	500mØ	15	100 #				PL	TO39	
17	RE3805	28m	5.0 Ø	J	400m		55	3.5	30	20u△	5.0	50m	10		800M				TO131	
18	RH3762	28m	5.0 Ø	J	400m		25	3.5	14	100u△	5.0	50m	10		800M				TO39	
19	S704	28m	5.0	$J	400m		55	3.5	30	100u#	5.0Ø	50m	10	200	1.0G§△			EPL	TO39	
20	S3010	28m	5.0	$J	400m		55	3.5	30	20u△	5.0	50m	10	200	1.2G§				MT59g	R
21	SD1045	28m	5.0 Ø	$J	750m		36	4.0	18 *	1.0m△	5.0Ø	50m	10	200	400M§△	10		PE	TO39	AØ
22	SD1101	28m	5.0 Ø	$J	500m		40	3.0	20	20u△	15	75m	20	210	4.8G§△	5.0		Ø	TO60	A
23	SD1102	28m	5.0 Ø	$J	500m		40	3.0	20	20u△	15	75m	20	210	4.8G§△	5.0		Ø	MT59j	R
24	SD1103	28m	5.0 Ø	$J	500m		40	3.0	20	20u△	15	75m	20	210	4.8G§△	5.0		Ø	MT66	R
25	SD1156	28m	5.0 Ø	$J	400m		36	4.0	18 *	1.0m△	5.0Ø	50m	10	200	400M§△	10			TO131	R
26	VX3866	28m	5.0 Ø	$J	400m		55	3.5	30	20u△♦					800M§	10		PE		
27	2N2149	29mØ					100		10		10	.03	40	120	.08k†			D		
28	2N3053/4053	29m	5.0 Ø	§S	700m		60	5.0	50 §	250n	10Ø	150m	50	250	100M§△			PLD	TO5	
29	11C201B20	29m$	1.0	$J	1.0		60	5.0	40	10nØ	10Ø	150m	100	300	50k§△	2.3	70n	PE	MD20	
30	11C203B20	29m$	1.0	$J	1.0		80	8.0	50	10nØ	10Ø	150m	40	120	50k§△	2.3	70n	PE	MD20	
31	11C205B20	29m$	1.0	$J	1.0		60	5.0	40	10nØ	10Ø	150m	20	60	50k§△	2.3	70n	PE	MD20	
32	11C210B20	29m$	1.0	$J	1.0		120	7.0	80	10nØ	10Ø	150m	40	120	50k§△	2.3	70n	PE	MD20	
33	11C211B20	29m$	1.0	$J	1.0		60	5.0	40	10nØ	10Ø	150m	40	120	50k§△	2.3	70n	PE	MD20	
34#	BFS86	29m	3.0 Ø*	$J	300m		50	3.0	30	100u	5.0Ø	60m	20 #					PE†	u93	Ø
35	A209	30m	3.5 Ø	$J	200m		40	3.5	25	10uØ	5.0Ø	50m	25		1.2G§	7.5		PEØ	MT86	V
36#	2SC514	32m	4.0 Ø	$J	100m		300	3.0	300	100u	10Ø	50m△	60 †		20M§			ME	MD25	
37#	BLY76	32m	4.0	$J	300m		65	4.0	36		5.0Ø	250m	30 Ø		900M§	2.0		PE	X63a	R
38	2N1508†	33m	1.0	$J	1.0		100	5.0	55	30u	3.6Ø	600m	20	60 #	50M§△		130nØØ		TO39	AØ
39	2N1509†	33m	1.0	$J	1.0		60	5.0	35	30u	3.6Ø	600m	20	60 #	50M§△		130nØØ		TO39	AØ
40	2N1679†	33m	1.0	$J	1.0		100	5.0	55	30u	3.6Ø	600m	40	120 #	50M§△		130nØØ		TO39	AØ
41	2N1680†	33m	1.0	$J	1.0		60	5.0	35	30u	3.6Ø	600m	40	120 #	50M§△		130nØØ		TO39	AØ
42	PT2525A	33m	5.0 Ø	$J	300m	200m	240	5.0	200	10nØ	50Ø	10m	20 #		70M§	10		PL	TO5	
43#	SFT443	33m	6.0 △	§S			80	4.0	80 *	10uØ†	10Ø	100m	15	40 Ø	180M§	1.8		PL	TO5	Ø
44#	2SC554	40m	6.0 Ø	$J	500m		36	4.0	18	100u#	3.0Ø	150m	10		400M§	4.0		PE	TO39	
45#	2SC665	40m	50 △Ø	$J	5.0	1.5	125	5.0	75		5.0Ø	1.0	35	200	250k	300m		ME	TO3	AØ
46	7A35	40m	1.0	$J			60	15	40 §	10uØ	10Ø	200	50	200	15M†			ME	TO5	
47	40423	40m#	3.8 Ø	$A	150m	150m	300	2.0		100u	10Ø	50m	50	250	25M§				MD31	AØ
48	40425	40m#	3.8 Ø	$A	150m	150m	300	2.0	300 #	100u	10Ø	50m	30	150	25M§				MD31	AØ
49	40427	40m#	3.8 Ø	$A	150m	150m	300	2.0		100u	10Ø	50m	20	100	25M§				MD31	AØ
50	A200	40m	7.0	$J	500m		36	4.0	18	100u△					550M§			PE	TO39	Ø
51	A246	40m	7.0 Ø	$J			40	4.0	20		5.0Ø	1.0	10		350M§			PE	MT72d	R
52	D7A30	40m	1.0	$J			50	5.0	50 Ø	10uØ	10Ø	200	12	36	15M†			ME	R133	A
53	D7A31	40m	1.0	$J			50	5.0	50 Ø	10uØ	10Ø	200	30	90	15M†			ME	R133	A
54	D7A32	40m	1.0	$J			50	5.0	50 Ø	10uØ	10Ø	200	75	200	15M†			ME	R133	A
55	D7F1	40m	1.0	$J			80	10	60	50u	10Ø	200m	12	36 #	20M†	8.5		DM	MT20	
56	D7F2	40m	1.0	$J			80	10	60	50u	10Ø	200m	30	90 #	20M†	8.5		DM	MT20	
57	D7F3	40m	1.0	$J			120	10	100	50u	10Ø	200m	12	36 #	20M†	8.5		DM	MT20	
58	D7F4	40m	1.0	$J			120	10	100	50u	10Ø	200m	30	90 #	20M†	8.5		DM	MT20	
59	D28A9	40mØ	1.0	$J	500m		40	5.0	40	100n	4.5Ø	2.0mØ	75	225					X51	
60	D28A10	40mØ			500m		40	5.0	40	100n	4.5Ø	2.0mØ	180	540					X51	
61	MHT4451	40m$	4.0 Ø	$J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	20	60 #	20M§△			PL	TO5	AØ
62	MHT4452	40m$	4.0 Ø	$J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	20	60 #	20M§△			PL	TO5	AØ
63	MHT4453	40m$	4.0 Ø	$J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	40	120 #	20M§△			PL	TO5	AØ
64	MHT4454	40m$	4.0 Ø	$J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	40	120 #	20M§△			PL	TO5	AØ
65	MHT4455	40m$	4.0 Ø	$J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	100 #		20M§△			PL	TO5	AØ
66	MHT4456	40m$	4.0 Ø	$J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	100 #		20M§△			PL	TO5	AØ
67	MHT4483	40m$	4.0 Ø	$J	5.0		60	5.0	40	1.0uØ	5.0Ø	1.0	20	60 #	20M§△			PL	TO5	AØ
68	MHT5001	40m$	4.0 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
69	MHT5002	40m$	4.0 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
70	MHT5003	40m$	4.0 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
71	MHT5004	40m$	4.0 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
72	MHT5005	40m$	4.0 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
73	MHT5006	40m$	4.0 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO46	A
74	MHT5007	40m$	4.0 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO46	A
75	MHT5008	40m$	4.0 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO46	A
76	MHT5009	40m$	4.0 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO46	A
77	MHT5010	40m$	4.0 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO46	A
78	MHT5011	40m$	4.0 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO46	A
79	MHT5012	40m$	4.0 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO46	A
80	MHT5013	40m$	4.0 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO46	A
81	MHT5014	40m$	4.0 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO46	A
82	MHT5015	40m$	4.0 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO46	A
83	MHT5051	40m$	4.0 Ø	$J	2.0	500m	175	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
84	MHT5052	40m$	4.0 Ø	$J	2.0	500m	200	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
85	MHT5053	40m$	4.0 Ø	$J	2.0	500m	225	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO46	A
86	MHT5054	40m$	4.0 Ø	$J	2.0	500m	175	8.0		100nØ	2.0Ø	500m	30	150 #	50M§△			PL	TO46	A
87	MHT5055	40m$	4.0 Ø	$J	2.0	500m	200	8.0		100nØ	2.0Ø	500m	30	150 #	50M§△			PL	TO46	A
88	MHT5056	40m$	4.0 Ø	$J	2.0	500m	225	8.0		100nØ	2.0Ø	500m	30	150 #	50M§△			PL	TO46	A
89	MHT5501	40m$	4.0 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO5	A
90	MHT5502	40m$	4.0 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO5	A
91	MHT5503	40m$	4.0 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO5	A
92	MHT5504	40m$	4.0 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO5	A
93	MHT5505	40m$	4.0 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	50	150 #	50M§△			PL	TO5	A
94	MHT5506	40m$	4.0 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO5	A
95	MHT5507	40m$	4.0 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO5	A
96	MHT5508	40m$	4.0 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO5	A
97	MHT5509	40m$	4.0 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO5	A
98	MHT5510	40m$	4.0 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	30 #		50M§△			PL	TO5	A
99	MHT5511	40m$	4.0 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO5	A
100	MHT5512	40m$	4.0 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO5	A
101	MHT5513	40m$	4.0 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO5	A
102	MHT5514	40m$	4.0 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO5	A
103	MHT5515	40m$	4.0 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	120 #		50M§△			PL	TO5	A
104	MHT5551	40m	4.0		2.0	.50	175	8.0	150	.10u	2.0	.50	50	150	50M				TO5	
105	MHT5552	40m	4.0		2.0	.50	200	8.0	175	.10u	2.0	.50	50	150	50M				TO5	
106	MHT5553	40m	4.0		2.0	.50	225	8.0	200	.10u	2.0	.50	50	150	50M				TO5	
107	MHT5554	40m	4.0		2.0	.50	175	8.0	150	.10u	2.0	.50	30		50M				TO5	
108	MHT5555	40m	4.0		2.0	.50	200	8.0	175	.10u	2.0	.50	30		50M				TO5	
109	MHT5556	40m	4.0		2.0	.50	225	8.0	200	.10u	2.0	.50	30		50M				TO5	
110	MHT9001	40m$	4.0 Ø§	§J	5.0	500m	50	5.0	30	1.0uØ	2.0Ø	1.0	20 #		10M§△			PL△	TO5	AØ

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L E A D	C O D E
1	MHT9002	40m$	4.0 Ø$	$J	5.0	500m	70	5.0	50	1.0uØ	2.0Ø	1.0	20 #		10M$△			PL△	TO5		AØ
2	MHT9003	40m$	4.0 Ø$	$J	5.0	500m	90	5.0	70	1.0uØ	2.0Ø	1.0	20 #		10M$△			PL△	TO5		AØ
3	MHT9004	40m$	4.0 Ø$	$J	5.0	500m	50	5.0	30	1.0uØ	2.0Ø	1.0	30	90 #	10M$△			PL△	TO5		AØ
4	MHT9005	40m$	4.0 Ø$	$J	5.0	500m	70	5.0	50	1.0uØ	2.0Ø	1.0	30	90 #	10M$△			PL△	TO5		AØ
5	MHT9006	40m$	4.0 Ø$	$J	5.0	500m	90	5.0	70	1.0uØ	2.0Ø	1.0	30	90 #	10M$△			PL△	TO5		AØ
6	MHT9007	40m$	4.0 Ø$	$J	5.0	500m	50	5.0	30	1.0uØ	2.0Ø	1.0	50	150 #	10M$△			PL△	TO5		AØ
7	MHT9008	40m$	4.0 Ø$	$J	5.0	500m	70	5.0	50	1.0uØ	2.0Ø	1.0	50	150 #	10M$△			PL△	TO5		AØ
8	MHT9009	40m$	4.0 Ø$	$J	5.0	500m	90	5.0	70	1.0uØ	2.0Ø	1.0	50	150 #	10M$△			PL△	TO5		AØ
9	MHT9010	40m$	4.0 Ø$	$J	5.0	500m	50	5.0	30	1.0uØ	2.0Ø	1.0	100 #		10M$△			PL△	TO5		AØ
10	MHT9011	40m$	4.0 Ø$	$J	5.0	500m	70	5.0	50	1.0uØ	2.0Ø	1.0	100 #		10M$△			PL△	TO5		AØ
11	MHT9012	40m$	4.0 Ø$	$J	5.0	500m	90	5.0	70	1.0uØ	2.0Ø	1.0	100 #		10M$△			PL△	TO5		AØ
12#	MP8231	40mØ	5.0	$J	1.2		20	4.0	20	1.0m	5.0Ø	500m	30	75	100M$△			PE	TO66		CØ
13#	MP8232	40mØ	5.0	$J	1.2		20	4.0	20	1.0m	5.0Ø	500m	60	120	100M$△			PE	TO66		CØ
14#	MP8233	40mØ	5.0	$J	1.2		20	4.0	20	1.0m	5.0Ø	500m	100	175	100M$△			PE	TO66		CØ
15#	MP8234	40mØ	5.0	$J	1.2		20	4.0	20	1.0m	5.0Ø	500m	150	250	100M$△			PE	TO66		CØ
16#	MP8235	40mØ	5.0	$J	1.2		20	4.0	20	1.0m	5.0Ø	500m	250		100M$△			PE	TO66		CØ
17	MST20B	40m	2.0	§A	1.0	400m	200	5.0	200 §	12u	10Ø	60m	30		20M§	34		DM	TO5		
18	MST30B	40m	2.0	§A	1.0	400m	300	5.0	300 §	12u	10Ø	60m	30		20M§	34		DM	TO5		
19	MST40B	40m	2.0	§A	1.0	400m	400	5.0	400 §	12u	10Ø	60m	30		20M§	34		DM	TO5		
20	MST50B	40m	2.0	§A	1.0	400m	500	5.0	500 §	12u	10Ø	60m	30		20M§	34		DM	TO5		
21	MST60B	40m	2.0	§A	1.0	400m	600	5.0	600 §	12u	10Ø	60m	30		20M§	34		DM	TO5		
22	MST70B	40m	2.0	§A	1.0	400m	700	5.0	700 §	12u	10Ø	60m	30		20M§	34		DM	TO5		
23	S715*	40m	7.0 Ø	§J	800m		55	3.5	30	40u△♦					800M§	5.0		PE	TO39		
24	SD1181	40m	5.0 Ø§	§J	500m		55	3.5	30	20u△					1.2G§			PE	TO60		A
25	SD1182	40m	5.0 Ø§	§J	500m		55	3.5	30	20u△					1.2G§			PE	MT59j		R
26	SD1183	40m	5.0 Ø§	§J	500m		55	3.5	30	20u△					1.2G§			PE	MT66		R
27	SE7005	40m	5.0 Ø	§J			150	5.0	150	10u△	10Ø	150m	150 Ø	260 #	60M§	8.0		DPL	MD14		
28	SE8042	40m	1.0	§J	1.0		30	6.0	30	50n	1.0Ø	150m	40 #	540 #	230M§			DPL	TO39		A
29	ST5060	40mØ		#			50	1.0	40		10Ø	5.0m	9.0	36					TO11		
30	ST5061	40mØ		#			80		70		10Ø	5.0m	9.0	36 †					TO11		
31	STT4451	40m	1.2	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	20	60 #	20M§△			PL	TO5		Ø
32	STT4452	40m	1.2	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	20	60 #	20M§△			PL	TO5		Ø
33	STT4453	40m	1.2	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	40	120 #	20M§△			PL	TO5		Ø
34	STT4454	40m	1.2	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	40	120 #	20M§△			PL	TO5		Ø
35	STT4455	40m	1.2	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	100 #		20M§△			PL	TO5		Ø
36	STT4456	40m	1.2	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	100 #		20M§△			PL	TO5		Ø
37	STT4483	40m	1.2	§J	5.0		60	5.0	40	1.0uØ	5.0Ø	1.0	20 #	60 Ø	20M§△			PL	TO5		Ø
38	STT9001	40m	1.2	§J	5.0		50	5.0	30	1.0uØ	5.0Ø	1.0	20 #		10M§△			PL	TO5		Ø
39	STT9002	40m	1.2	§J	5.0		70	5.0	50	1.0uØ	5.0Ø	1.0	20 #		10M§△			PL	TO5		Ø
40	STT9003	40m	1.2	§J	5.0		90	5.0	70	1.0uØ	5.0Ø	1.0	20 #		10M§△			PL	TO5		Ø
41	STT9004	40m	1.2	§J	5.0		50	5.0	30	1.0uØ	5.0Ø	1.0	30	90 #	10M§△			PL	TO5		Ø
42	STT9005	40m	1.2	§J	5.0		70	5.0	50	1.0uØ	5.0Ø	1.0	30	90 #	10M§△			PL	TO5		Ø
43	STT9006	40m	1.2	§J	5.0		90	5.0	70	1.0uØ	5.0Ø	1.0	30	90 #	10M§△			PL	TO5		Ø
44	STT9007	40m	1.2	§J	5.0		50	5.0	30	1.0uØ	5.0Ø	1.0	50	150 #	10M§△			PL	TO5		Ø
45	STT9008	40m	1.2	§J	5.0		70	5.0	50	1.0uØ	5.0Ø	1.0	50	150 #	10M§△			PL	TO5		Ø
46	STT9009	40m	1.2	§J	5.0		90	5.0	70	1.0uØ	5.0Ø	1.0	50	150 #	10M§△			PL	TO5		Ø
47	STT9010	40m	1.2	§J	5.0		50	5.0	30	1.0uØ	5.0Ø	1.0	100		10M§△			PL	TO5		Ø
48	STT9011	40m	1.2	§J	5.0		70	5.0	50	1.0uØ	5.0Ø	1.0	100		10M§△			PL	TO5		Ø
49	STT9012	40m	1.2	§J	5.0		90	5.0	70	1.0uØ	5.0Ø	1.0	100		10M§△			PL	TO5		Ø
50#	V740	40mØ	7.0 Ø	§J	300m		45	3.0	18	100nØ	10Ø	50m	20 #	200 #	1.8G§△			E	MT75f		S
51#	V740N	40mØ	7.0 Ø	§J	300m		45	3.0	18	100nØ	10Ø	50m	20 #	200 #	1.8G§△			E	MT89a		R
52#	XB401	40m	7.0 Ø	§J	1.0	400m	60	4.0	40						350M§			PE	TO39		
53	2N3717	42m	7.5 Ø	§C	1.0	200m	60 †	4.0†	60 Ø	10u§♦	2.0Ø	500m	2.0	100 #	250M§△				TO39		AØ
54#	3TE450	43m	7.5 Ø	§J	500m	200m	80	4.0	80	100uØ	5.0Ø	500m	10 #	80 #	350M§△	1.0		PE	MT62		
55	NS9400	43m	7.5 Ø	§S	1.0		60	4.0	60 Ø	1.0uØ	10Ø	25mØ	30	60 Ø	330M§	1.2		PE	TO5		AØ
56	2N2473	45m	7.0 Ø	§C	1.0	500m	120	10	100	50u	10Ø	200m	30	90	10M§△	8.5			R46		
57	4JD7A35	45m	1.0	§J			60	15	40 §	10uØ	10Ø	200m	50	200 #	15M			DM△	R133		Ø
58	A270	45m	8.0 Ø	§J	500m		65	4.0	36	5.0m△	5.0Ø	500m	5.0		500M§	1.0		PE	TO39		AØ
59	A274	45m	8.0 Ø	§J	750m		36	4.0	18	5.0m△	5.0Ø	500m	5.0		700M§	1.0		PE	TO39		AØ
60#	BFS22	45m	8.0	§J	750m		36	4.0	18	5.0m△	5.0Ø	500m	5.0		700M§	1.0			TO39		AØ
61	BFS22R	45m	8.0	§J	750m		36	4.0	18	5.0m△	5.0Ø	500m	5.0		700M§	1.0			TO39		AØ
62	BFS23	45m	8.0	§J	1.5 #		65	4.0	36	5.0m△	5.0Ø	500m	5.0 †		500M§			PE	TO39		AØ
63	BFS23R	45m	8.0	§J	1.5 #		65	4.0	36	5.0m△	5.0Ø	500m	5.0 †		500m§			PE	TO39		AØ
64#	2SD122	48mØ	7.0		3.0	1.5	60	12	40	.01mØ	4.0	.75	15	100	600k†		2.6u	ME	TO8		
65#	2SD123	48mØ	7.0		3.0	1.5	100	12	55	.01mØ	4.0	.75	15	100	600k†		2.6u	ME	TO8		
66	2N2033/S	50m	8.5 Ø	§J	3.0		80	10	60		4.0Ø	500m	20	60	1.0M§	800m	1.0uØ	D	MT13		
67	2N2034/S	50m	8.5 Ø	§J	3.0		80	10	60		4.0Ø	1.0	20	60	1.0M§△	300m	1.0uØ	D	MT13		
68	2N2485	50m	8.8 Ø	§S	1.0	100m	120	2.0	120	500u♦	10Ø	500m	10		100M§△				TO5		AØ
69	2N2486	50m	8.8 Ø	§S	1.0	100m	140	2.0	140	500u♦	10Ø	500m	10		100M§△				TO5		AØ
70	2N2649	50m	8.7 Ø	§S	1.0	100m	65	1.0	65	500u♦	10Ø	500m	10		100M§△				TO5		AØ
71	2N2650	50m	8.7 Ø	§S	1.0	100m	140	2.0	140	500u♦	10Ø	500m	10		100M§△				TO5		AØ
72	2N4054	50m§	4.0 Ø	$C	100m		300	7.0	300	100u	10Ø	50m	30	90	15M§△	67			X51		L
73	2N4055	50m§	4.0 Ø	$C	100m		250	7.0	250	100u	10Ø	50m	30	90	15M§△	67			X51		L
74	2N4056	50m§	4.0 Ø	$C	100m		200	7.0	200	100u	10Ø	50m	30	90	15M§△	67			X51		L
75	2N4057	50m§	4.0 Ø	$C	100m		150	7.0	150	100u	10Ø	50m	30	90	15M§△	67			X51		L
76	3TE250	50m	7.5 Ø	§J	600m		80	4.0	80	10uØ	5.0Ø	500m	10	60 #				DPE	TO37		
77	3TE477	50m						4.0	30	1.0m	5.0Ø	50	10	200	800M§△			PE			
78	40264	50m	4.0 Ø	$	100m	100m	300	3.0	300	100u	10Ø	50m	30	150	25M†				MD26		
79	B3458	50m	7.5 Ø		5.0		100	6.0	60	.02mØ	10Ø	5.0	30		200M§△	33		PE	TO5		
80	B3465	50m	5.0	§J	3.0		100	6.0	60	100nØ	5.0Ø	1.0	40		200M§△	500m			TO5		AØ
81	B3466	50m	5.0	ØJ	3.0		100	6.0	60	100nØ	10Ø	2.0	20		200M§△	500m			MT27		
82	B3531	50m	4.0 Ø$	§C	5.0		80	8.0	40	1.0mØ	.50Ø	1.0	20	60	30M§△	500m		PE	TO5		
83	B3532	50m	4.0 Ø$	§C	5.0		100	8.0	80	1.0mØ	.50Ø	1.0	20	60	30M§△	500m		PE	TO5		
84	B3533	50m	4.0 Ø$	§C	5.0		80	8.0	40	1.0mØ	.50Ø	1.0	40	120	30M§△	500m		PE	TO5		
85	B3534	50m	4.0 Ø$	§C	5.0		100	8.0	80	1.0mØ	.50Ø	1.0	40	120	30M§△	500m		PE	TO5		
86	B3535	50m	4.0 Ø$	§C	5.0		80	8.0	40	1.0mØ	.50Ø	1.0	100		30M§△	500m		PE	TO5		
87	B3536	50m	4.0 Ø$	§C	5.0		100	8.0	80	1.0mØ	.50Ø	1.0	100		30M§△	500m		PE	TO5		
88	B3537	50m	4.0 Ø$	§C	5.0		60	5.0	40	1.0mØ	.50Ø	1.0	20	60	40M§△	500m		PE	TO5		
89	B3594	50m	5.0 Ø$	§C	10		60	5.0	40	1.0mØ		5.0 Ø	40	120	30M§△	100m		PE	TO5		
90	B3595	50m	5.0 Ø$	§C	10		80	5.0	60	1.0mØ		5.0 Ø	40	120	30M§△	100m		PE	TO5		
91	B3596	50m	5.0 Ø$	§C	10		100	5.0	80	1.0mØ		5.0 Ø	40	120	30M§△	100m		PE	TO5		
92	B3597	50m	5.0 Ø$	§C	10		60	5.0	40	1.0mØ		5.0 Ø	20	60	15M§△	1.2		PE	TO5		
93	B3598	50m	5.0 Ø$	§C	10		80	5.0	60	1.0mØ		5.0 Ø	20	60	15M§△	1.2		PE	TO5		
94	B3599	50m	5.0 Ø$	§C	10		100	5.0	80	1.0uØ		5.0 Ø	20	60	15M§△	1.2		PE	TO5		
95	B3600	50m	5.0 Ø$	§C	10		60	5.0	40	1.0uØ		5.0 Ø	40	120	15M§△	1.2		PE	TO5		
96	B3601	50m	5.0 Ø$	§C	10		80	5.0	60	1.0uØ		5.0 Ø	40	120	15M§△	1.2		PE	TO5		
97	B3602	50m	5.0 Ø$	§C	10		100	5.0	80	1.0uØ		5.0 Ø	40	120	15M§△	1.2		PE	TO5		
98	B3603	50m	5.0 Ø$	§C	10		60	5.0	40	1.0uØ		5.0 Ø	100		15M§△	1.2		PE	TO5		
99	B3604	50m	5.0 Ø$	§C	10		80	5.0	60	1.0uØ		5.0 Ø	100		15M§△	1.2		PE	TO5		
100	B3605	50m	5.0 Ø$	§C	10		100	5.0	80	1.0uØ		5.0 Ø	100		15M§△	1.2		PE	TO5		
101	B3606	50m	4.0 Ø$	§C	5.0		50	5.0	30	1.0uØ		1.0 Ø	20					PE	TO5		
102	B3607	50m	4.0 Ø$	§C	5.0		70	5.0	50	1.0uØ		1.0 Ø	20					PE	TO5		
103	B3608	50m	4.0 Ø$	§C	5.0		90	5.0	70	1.0uØ		1.0 Ø	20					PE	TO5		
104	B3609	50m	4.0 Ø$	§C	5.0		50	5.0	30	1.0uØ		1.0 Ø	30	90				PE	TO5		
105	B3610	50m	4.0 Ø$	§C	5.0		70	5.0	50	1.0uØ		1.0 Ø	30	90				PE	TO5		
106	B3611	50m	4.0 Ø$	§C	5.0		90	5.0	70	1.0uØ		1.0 Ø	30	90				PE	TO5		
107	B3612	50m	4.0 Ø$	§C	5.0		50	5.0	30	1.0uØ		1.0 Ø	50	150				PE	TO5		
108	B3613	50m	4.0 Ø$	§C	5.0		70	5.0	50	1.0uØ		1.0 Ø	50	150				PE	TO5		
109	B3614	50m	4.0 Ø$	§C	5.0		90	5.0	70	1.0uØ		1.0 Ø	50	150				PE	TO5		
110	B3615	50m	4.0 Ø$	§C	5.0		50	5.0	30	1.0uØ		1.0 Ø	100					PE	TO5		

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LCEADE
1	B3616	50m	4.0 Ø$	§C	5.0		70	5.0	50	1.0uØ		1.0 Ø	100					PE	TO5	
2	B3617	50m	4.0 Ø$	§C	5.0		90	5.0	70	1.0uØ		1.0 Ø	100					PE	TO5	
3	B3749	50m$	3.7 $	§J	5.0				50										MT27	
4	B3750	50m$	3.7 $	§J	5.0				50										MT27	
5	D28A5	50m§	1.0	#J	500m		35	5.0	25	100n	4.5Ø	2.0m	75	225	180k§	60		†	X51	
6	D28A6	50m§	1.0	#J	500m		35	5.0	25	100n	4.5Ø	2.0m	180	540	330k§	60		†	X51	
7	D28A12	50m§	1.0	#J	500m		50	5.0	50	100n	4.5Ø	2.0m	75	225	150k§	60		†	X51	
8	D28A16	50m§	1.0	#J	500m		50	5.0	50	100n	4.5Ø	2.0m	180	540	300k§	60		†	X51	
9	MHT7401	50m$	5.0 Ø$	§J	5.0	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL△	TO5	AØ
10	MHT7402	50m$	5.0 Ø$	§J	5.0	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL△	TO5	AØ
11	MHT7403	50m$	5.0 Ø$	§J	5.0	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL△	TO5	AØ
12	MHT7411	50m$	5.0 Ø$	§J	5.0	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	20	60 #	15M§△			PL△	TO5	AØ
13	MHT7412	50m$	5.0 Ø$	§J	5.0	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	20	60 #	15M§△			PL△	TO5	AØ
14	MHT7413	50m$	5.0 Ø$	§J	5.0	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	20	60 #	15M§△			PL△	TO5	AØ
15	MHT7414	50m$	5.0 Ø$	§J	5.0	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL△	TO5	AØ
16	MHT7415	50m$	5.0 Ø$	§J	5.0	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL△	TO5	AØ
17	MHT7416	50m$	5.0 Ø$	§J	5.0	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	40	120 #	15M§△			PL△	TO5	AØ
18	MHT7417	50m$	5.0 Ø$	§J	5.0	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	100 #		15M§△			PL△	TO5	AØ
19	MHT7418	50m$	5.0 Ø$	§J	5.0	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	100 #		15M§△			PL△	TO5	AØ
20	MHT7419	50m$	5.0 Ø$	§J	5.0	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	100 #		15M§△			PL△	TO5	AØ
21	MSP10	50m	2.0	§A	400m	150m	100	5.0	100 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	MD14	
22	MSP15	50m	2.0	§A	400m	150m	150	5.0	150 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	MD14	
23	MSP20	50m	2.0	§A	400m	150m	200	5.0	200 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	MD14	
24	MSP25	50m	2.0	§A	400m	150m	250	5.0	250 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	MD14	
25	MSP30	50m	2.0	§A	400m	150m	300	5.0	300 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	MD14	
26	MSP35	50m	2.0	§A	400m	150m	350	5.0	350 §	3.0u	10Ø	55m	30	55 Ø	40M§	25		DM	MD14	
27	MSP40	50m	2.0	§A	400m	150m	400	5.0	400 §	4.0u	10Ø	45m	30	55 Ø	40M§	30		DM	MD14	
28	MSP45	50m	2.0	§A	400m	150m	450	5.0	450 §	4.0u	10Ø	45m	30	55 Ø	40M§	30		DM	MD14	
29	MSP50	50m	2.0	§A	350m	150m	500	5.0	500 §	6.0u	10Ø	25m	30	55 Ø	40M§	55		DM	MD14	
30	MSP55	50m	2.0	§A	350m	150m	550	5.0	550 §	6.0u	10Ø	25m	30	55 Ø	40M§	60		DM	MD14	
31	MSP60	50m	2.0	§A	350m	150m	600	5.0	600 §	8.0u	10Ø	25m	30	55 Ø	40M§	60		DM	MD14	
32	MSP65	50m	2.0	§A	350m	150m	650	5.0	650 §	8.0u	10Ø	25m	30	55 Ø	40M§	60		DM	MD14	
33	MSP70	50m	2.0	§A	350m	100m	700	5.0	700 §	10u	10Ø	25m	30	55 Ø	40M§	65		DM	MD14	
34	MSP75	50m	2.0	§A	300m	100m	750	5.0	750 §	10u	10Ø	22m	30	55 Ø	40M§	73		DM	MD14	
35	MSP80	50m	2.0	§A	300m	100m	800	5.0	800 §	12u	10Ø	22m	25	50 Ø	40M§	73		DM	MD14	
36	MSP85	50m	2.0	§A	250m	75m	850	5.0	850 §	12u	10Ø	20m	25	50 Ø	40M§	80		DM	MD14	
37	MSP90	50m	2.0	§A	250m	75m	900	5.0	900 §	15u	10Ø	20m	25	50 Ø	40M§	80		DM	MD14	
38	MSP95	50m	2.0	§A	200m	50m	950	5.0	950 §	15u	10Ø	15m	25	50 Ø	40M§	100		DM	MD14	
39	MSP100	50m	2.0	§A	400m	100m	1.0k	5.0	1.0k§	12u	10Ø	20m	30	180	35M	45		DM	MD14	
40	NS9500	50m	8.7				65	3.0	65										TO5	
41	SN118	50m	8.7 Ø	§A	2.0	1.0	60	3.0	60	100uØ	10	500m	7.0		800M			ME	TO5	
42	SN500	50m	8.7 Ø				65	3.0	65										MT31	
43	ST4402	50m	5.0 Ø$	§J			150	5.0	150	100nØ	10Ø	600m	40						MD28a	
44	STC7644	50m	8.8	§J	3.0		150	10	150	250u#Ø	4.0Ø	1.0	20	60 #		400m		D	TO5	AØ
45	STC7645	50m	8.8	§J	3.0		180	10	180	250u#Ø	4.0Ø	1.0	15	60 #		450m		D	TO5	AØ
46	TN71†	50m$	500m	§J	5.0		60	5.0	30	100u	5.0	1.0	20	60	40k§	500m		PE	TO5	
47	TN72†	50m$	500m	§J	5.0		60	5.0	30	100u	5.0	1.0	40	120	50k§	500m		PE	TO5	
48#	V575	50mØ	7.5 Ø	§J	750m#		40	3.0	20	100uØ	10Ø	150m	20 #	200 #	1.5G§△			PE†	MT72f	S
49	V600	50m	8.8 Ø	§J	1.5		80	4.0	60	100nØ					2.0M§	670m		PE	TO5	A
50	V601	50m	8.8 Ø	§J	1.5		80	4.0	60	10uØ					2.0M§	670m		PE	TO5	A
51	V602	50m	8.8 Ø	§J	1.5		50	4.0	40	10uØ					2.0M§	670m		PE	TO5	A
52#	ZT2876	50m	18 Ø♦	§J	2.5		80	4.0	60	1.0uØ					200M§			PL	MT31	
53	TA2084	55m†	5.0 Ø	§A	1.0	50m	140	1.0	140									ME	TO5	
54	2N5924	57m	10 Ø	§S	1.5		55 †	3.5†	35	20m§†									MT75d	R
55	2N6366	57m	10 Ø	§S	1.0		36 †	4.0†	18	5.0m§†	5.0Ø	250m	5.0	50	50M§△				TO102	AØ
56#	2SC699	57m	10 Ø	§J	1.0		50	4.0	50 §	50uØ	12Ø	100m	15	30 Ø	100M§			PL	MD32	
57#	2SC910	57m	10 Ø	§J	1.0		40	3.0	40 §	100uØ	10Ø	100m	5.0		800M§			PE	MT59b	GE
58#	2SC974	57m	10 Ø	§J	1.0		40	3.0	40 §	100uØ	10Ø	100m	5.0 #		1.2G§			PE†	MT83	VØ
59	MHT4501	57m	10 Ø	§J	600m		60	5.0	40 §	1.0uØ	4.0Ø	150m	20	120 #	80M	2.0		E△	MT9	
60	MHT4502	57m	10 Ø	§J	600m		120	5.0	70 §	2.0uØ	4.0Ø	150m	20	120 #	80M	4.0		E△	MT9	
61	MHT4511	57m	10 Ø	§J	600m		60	5.0	40	1.0uØ	4.0Ø	150m	20	60	80M	2.0		E	MT9	
62	MHT4512	57m	10 Ø	§J	600m		60	5.0	40	1.0uØ	4.0Ø	150m	40	120	80M	2.0		E	MT9	
63	MHT4513	57m	10 Ø	§J	600m		60	5.0	40	1.0uØ	4.0Ø	150m	100		80M	2.0		E	MT9	
64	MHT4514	57m	10 Ø	§J	600m		80	5.0	60	1.0uØ	4.0Ø	150m	20	60	80M	3.0		E	MT9	
65	MHT4515	57m	10 Ø	§J	600m		80	5.0	60	1.0uØ	4.0Ø	150m	40	120	80M	3.0		E	MT9	
66	MHT4516	57m	10 Ø	§J	600m		80	5.0	60	1.0uØ	4.0Ø	150m	100		80M	3.0		E	MT9	
67	MHT4517	57m	10 Ø	§J	600m		120	5.0	80	2.0uØ	4.0Ø	150m	20	60	80M	4.0		E	MT9	
68	MHT4518	57m	10 Ø	§J	600m		120	5.0	80	2.0uØ	4.0Ø	150m	40	120	80M	4.0		E	MT9	
69	MHT4519	57m	10 Ø	§J	600m		120	5.0	80	2.0uØ	4.0Ø	150m	100		80M	4.0		E	MT9	
70	RE3754	57m	10 Ø	J	400m		40	3.5	30	100u△	5.0	50m	10		1.0G				MT59	
71	RE3755	57m	10 Ø	J	1.0		50	3.5	30	1.0m	5.0	50	20		1.0G				MT59	
72	RE3778	57m	10 Ø	J	400m		35	3.5	14	100u△	5.0	50m	10		800M				MT59	
73	RE3779	57m	10 Ø	J	1.0		35	3.5	14	1.0m	5.0	50	20		1.0G				MT59	
74	RH3778	57m	10 Ø	J	1.0		55	3.5	30	1.0m	5.0	50	20		1.0G				MT74	
75	RH3787	57m	10 Ø	J	400m		50	3.5	30	100u△	5.0	50m	10		1.0G				MT74	
76	S708*	57m	10 Ø	§J	800m		55	3.5	30	40u△♦					800M§	5.0		PE		
77	S2002	57m	10	§J	400m		50	3.5	30	100u△	5.0	50m	10	200	1.2G§				MT66	R
78	SD1174	57m	10 Ø	§J	750m		36	4.0	18 *	1.0m△	5.0Ø	50m	10	200	400M§△	10		PE	TO39	AØ
79	SD1177	57m	10 Ø	§J	750m		36	4.0	18 *	1.0m△	5.0Ø	50m	10	200	400M§△	10		PE	MT59	R
80	3TE150	58m	7.5	§J	600m		90	5.0	80	10uØ	5.0Ø	500m	10	80	200M§	1.0		PE	TO37	
81	B3538	58m	10 Ø	§C	600m		60	5.0	40	2.0m	1.0Ø	150m	20	120	40M§△	2.0		PE	MT27	
82	B3539	58m	10 Ø	§C	600m		120	5.0	70	1.0uØ		150mØ	20	120	50M§△	4.0		PE	MT27	
83	B3540	58m	10 Ø	§C	600m		60	5.0	40	1.0uØ		150mØ	20	60		2.0		PE	MT27	
84	B3541	58m	10 Ø	§C	600m		60	5.0	40	1.0uØ		150mØ	40	120		2.0		PE	MT27	
85	B3542	58m	10 Ø	§C	600m		60	5.0	40	1.0uØ		150mØ	100			2.0		PE	MT27	
86	B3543	58m	10 Ø	§C	600m		80	5.0	60	1.0uØ		150mØ	20	60		3.0		PE	MT27	
87	B3544	58m	10 Ø	§C	600m		80	5.0	60	1.0uØ		150mØ	40	120		3.0		PE	MT27	
88	B3546	58m	10 Ø	§C	600m		120	5.0	80	2.0uØ		150mØ	20	60		4.0		PE	MT27	
89	B3568	58m	10 Ø	§C	600m		120	5.0	80	2.0uØ		150mØ	40	120	50M§△	4.0		PE	MT27	
90	B3569	58m	10 Ø	§C	600m		120	5.0	80	2.0uØ		150mØ	100		50M§△	4.0		PE	MT27	
91#	BLY80	59m§	5.0 ▼%	§J	1.0		30	4.0	15 *Ø	1.0m	5.0Ø	1.0	20 #		175M			PE†	u93	Ø
92#	BLY95	59m♦	2.5 ▼%	§J	1.0		55	3.5	31 Ø	1.0m	5.0Ø	1.0	10 #		1.0G			PE†	u93	Ø
93#	82T2	60m	9.0	§J	1.0			4.0	50 §	1.0uØ	2.0Ø	500m	10		2.5M§△	1.0		PE·	TO60	A
94	A247	62m	11 Ø	§J			40	4.0	20		5.0Ø	2.0	10		350M§			PE	MT72e	R
95#	XB436	63m	11 Ø	§J	2.0	500m	36	4.0	18						900M§			PE	TO117	
96#	XB475	63m	11 Ø	§J	2.0	500m	60	4.0	30						900M§			PE	TO117	
97	2N2472	66m	1.0	§C	1.0	500m	120	10	100	10u△	10Ø	200m	30	90 #	10M§△				MD14	A
98#	2SC522Ot	66m	10 Ø	§J	1.5	1.5 Ø	140	5.0	100	1.0uØ	2.0Ø	200m	50	150	60M§	300m	130nØ	DPL	MD29	AØ
99#	2SC522Rt	66m	10 Ø	§J	1.5	1.5 Ø	140	5.0	100	1.0uØ	2.0Ø	200m	30	90	60M§	300m	130nØ	DPL	MD29	AØ
100#	2SC523Ot	66m	10 Ø	§J	1.5	1.5 Ø	120	5.0	80	1.0uØ	2.0Ø	200m	50	150	60M§	300m	130nØ	DPL	MD29	AØ
101#	2SC523Rt	66m	10 Ø	§J	1.5	1.5 Ø	120	5.0	80	1.0uØ	2.0Ø	200m	30	90	60M§	300m	130nØ	DPL	MD29	AØ
102#	2SC524Ot	66m	10 Ø	§J	1.5	1.5 Ø	100	5.0	60	1.0uØ	2.0Ø	200m	50	150	60M§	300m	130nØ	DPL	MD29	AØ
103#	2SC524Rt	66m	10 Ø	§J	1.5	1.5 Ø	100	5.0	60	1.0uØ	2.0Ø	200m	30	90	60M§	300m	130nØ	DPL	MD29	AØ
104#	2SC525Ot	66m	10 Ø	§J	1.5	1.5 Ø	70	5.0	40	1.0uØ	2.0Ø	200m	50	150	60M§	300m	130nØ	DPL	MD29	AØ
105#	2SC525Rt	66m	10 Ø	§J	1.5	1.5 Ø	70	5.0	40	1.0uØ	2.0Ø	200m	30	90	60M§	300m	130nØ	DPL	MD29	AØ
106#	2SC550	66m	10 Ø	§J	1.5		36	4.0	18	100u#	3.0Ø	150m	30		400M§	4.0		PE	TO60	
107	40255	66m#	10 Ø	§J	1.0	500m	450	7.0	350	500u#	10Ø	20m	40	160	20M§△	10		D△	MD25	Ø
108	40256	66m#	10 Ø	§J	1.0	500m	300	7.0	250	500u#	10Ø	20m	40	160	20M§△	10		D△	MD25	Ø
109	A201	66m	11	§J	1.0		36	4.0	18	100u△					400M§			PE	TO60	A
110	A208	66m	5.0 Ø	§J	400m		40	3.5	25	100uØ	20Ø	200m	30		1.2G§△	3.7			MT86	V

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AE XM P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1	A515	66mØ§	6.0	§J	150m	30m	220	5.0			20Ø	50m	20	35 Ø	65M§				TO39	
2	B3570	66m	10 Ø§	§C	5.0		80	8.0	40	1.0uØ		1.0 Ø	20	60	30M§	500m		PE	MT27	
3	B3571	66m	10 Ø§	§C	5.0		100	8.0	80	1.0uØ		1.0 Ø	20	60	30M§	500m		PE	MT27	
4	B3572	66m	10 Ø§	§C	5.0		80	8.0	40	1.0uØ		1.0 Ø	40	120	30M§	500m		PE	MT27	
5	B3573	66m	10 Ø§	§C	5.0		100	8.0	80	1.0uØ		1.0 Ø	40	120	30M§	500m		PE	MT27	
6	B3574	66m	10 Ø§	§C	5.0		80	8.0	40	1.0uØ		1.0 Ø	100		30M§	500m		PE	MT27	
7	B3575	66m	10 Ø§	§C	5.0		100	8.0	80	1.0uØ		1.0	100		30M§	500m		PE	MT27	
8	B3576	66m	10 Ø§	§C	5.0		60	5.0	40	1.0uØ		1.0	20	60	30M§	500m		PE	MT27	
9	B3629	66m	10 Ø§	§C	5.0		80	8.0	60	100uØ		1.0 Ø	40	120	20M§△	500m		PE	MT27	
10	B3630	66m	10 Ø§	§C	5.0		100	8.0	80	100uØ		1.0 Ø	40	120	20M§△	500m		PE	MT27	
11	B143000	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§	10Ø	3.0	45	90			2.0u	△	TO5	AØ
12	B143001	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§	10Ø	3.0	70	140			2.0u	△	TO5	AØ
13	B143002	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§	10Ø	3.0	120	240			2.0u	△	TO5	AØ
14	B143003	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§	10Ø	3.0	45	90			2.0u	△	TO5	AØ
15	B143004	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§	10Ø	3.0	70	140			2.0u	△	TO5	AØ
16	B143005	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§	10Ø	3.0	120	240			2.0u	△	TO5	AØ
17	B143006	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§	10Ø	3.0	45	90			2.0u	△	TO5	AØ
18	B143007	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§	10Ø	3.0	70	140			2.0u	△	TO5	AØ
19	B143008	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§	10Ø	3.0	120	240			2.0u	△	TO5	AØ
20	B143009	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§							2.0u	△	TO5	AØ
21	B143010	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§							2.0u	△	TO5	AØ
22	B143011	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§							2.0u	△	TO5	AØ
23	B143012	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§							2.0u	△	TO5	AØ
24	B143013	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§							2.0u	△	TO5	AØ
25	B143014	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§							2.0u	△	TO5	AØ
26	B143015	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§	10Ø	3.0	45	90			2.0u	△	MT27	
27	B143016	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§	10Ø	3.0	70	140			2.0u	△	MT27	
28	B143017	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§	10Ø	3.0	120	240			2.0u	△	MT27	
29	B143018	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§	10Ø	3.0	45	90			2.0u	△	MT27	
30	B143019	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§	10Ø	3.0	70	140			2.0u	△	MT27	
31	B143020	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§	10Ø	3.0	120	240			2.0u	△	MT27	
32	B143021	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§	10Ø	3.0	45	90			2.0u	△	MT27	
33	B143022	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§	10Ø	3.0	70	140			2.0u	△	MT27	
34	B143023	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§	10Ø	3.0	120	240			2.0u	△	MT27	
35	B143024	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§							2.0u	△	MT27	
36	B143025	66m	5.0	§J	5.0	1.0	50	5.0	40	1.0m§							2.0u	△	MT27	
37	B143026	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§							2.0u	△	MT27	
38	B143027	66m	5.0	§J	5.0	1.0	70	5.0	60	1.0m§							2.0u	△	MT27	
39	B143028	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§							2.0u	△	MT27	
40	B143029	66m	5.0	§J	5.0	1.0	90	5.0	80	1.0m§							2.0u	△	MT27	
41#	BLY74	66m	11 Ø	§C	1.5		65	4.0	40	1.0m#♦	5.0Ø	250m	10	100 #	400M§△			DPE	TO60	A
42	BR100A§	66m	5.0 Ø	§J	5.0	1.0	60	3.0	40	1.0mØ	5.0Ø	3.0	40	200 #	300M§				R50	AØ
43	BR101A§	66m	5.0 Ø	§J	5.0	1.0	90	3.0	75	1.0mØ	5.0Ø	3.0	30	150 #	300M§				R50	AØ
44	D7B1	66m	2.0	§J			80	10	60	50u	10Ø	200m	12	36 #	20M†	8.5		DM	MD14	
45	D7B2	66m	2.0	§J			80	10	60	50u	10Ø	200m	30	90 #	20M†	8.5		DM	MD14	
46	D7C1	66m	2.0	§J			80	10	60	50u	10Ø	200m	12	36 #	20M†	8.5		DM	R45	
47	D7C2	66m	2.0	§J			80	10	60	50u	10Ø	200m	30	90 #	20M†	8.5		DM	R45	
48	D7C3	66m	2.0	§J			120	10	100	50u	10Ø	200m	12	36 #	20M†	8.5		DM	R45	
49	D7D1	66m	2.0	§J			80	10	60	50u	10Ø	200m	12	36 #	20M†	8.5		DM	R46	
50	D7D2	66m	2.0	§J			80	10	60	50u	10Ø	200m	30	90 #	20M†	8.5		DM	R46	
51	D7D3	66m	1.0	§J			120	10	100	50u	10Ø	200m	12	36 #	20M†	8.5		DM	R46	
52	D7E1	66m	1.0	§J			80	10	60	50u	10Ø	200m	12	36 #	20M†	8.5		DM	MT19	
53	D7E2	66m	1.0	§J			80	10	60	50u	10Ø	200m	30	90 #	20M†	8.5		DM	MT19	
54	D7E3	66m	1.0	§J			120	10	100	50u	10Ø	200m	12	36 #	20M†	8.5		DM	MT19	
55	D7G1	66m	1.5	§J			80	10	60	50u	10Ø	200m	12	36	20M†	8.5		ME	MT20a	
56	D7G2	66m	1.5	§J			80	10	60	50u	10Ø	200m	30	90	20M†	8.5		ME	MT20a	
57	D7G3	66m	1.5	§J			120	10	100	50u	10Ø	200m	12	36	20M†	8.5		ME	MT20a	
58	MM2264	66m	1.1	§J	1.5				25	500nØ	1.0Ø	150m	70		50M§△			EA	TO5	AØ
59	MSP5405	66m	2.0	§A	400m	200m	650	5.0	540	10u	10Ø	100m	20		50M§△	60		DM	MD14	
60	MSP6605	66m	2.0	§A	400m	200m	800	5.0	660	10u	10Ø	100m	20		50M§	60		DM	MD14	
61	SDT9901	66m	115		15	3.0	60	12	40	1.0u	5.0	5.0	20	60	5.0M			ME	TO61	
62	SDT9902	66m	115		15	3.0	80	12	60	1.0u	5.0	5.0	20	60	5.0M			ME	TO61	
63	SDT9903	66m	115		15	3.0	100	12	80	1.0u	5.0	5.0	20	60	5.0M			ME	TO61	
64	SDT9904	66m	115		15	3.0	120	12	100	1.0u	5.0	5.0	20	60	5.0M			ME	TO61	
65	TN51†	66m	5.0 Ø	§J	5.0		60	5.0	30	100u	5.0	1.0	20	60	40k§	500m		PE	MT26	
66	TN52†	66m	5.0 Ø	§J	5.0		60	5.0	30	100u	5.0	1.0	40	120	50k§	500m		PE	MT26	
67	TRS3205S	66m	2.0	§A	400m		385	5.0	320	2.0uØ	8.0Ø	200m	25	45 Ø	50M§△	30		DM	MD14	
68	VX3375	66m	12 Ø	§J	1.5		65	4.0	40	100u△Ø			40 Ø		600M§	2.0		PE	X48	
69#	ZT3375	66m	11	§J	1.5	200m	65	4.0	40	5.0m#	5.0	250m	5.0	50	400M§△	4.0		PE	TO60	
70	3TE467	67m						4.0	28	1.0m	5.0Ø	100	10	200	600M§△			PE		
71#	83T2	67m	10	§J	2.0			4.0	60 §	3.0uØ	2.0Ø	1.0	10		2.5M§△	.50		PE	TO60	A
72	MSA8506	68m	12 Ø	§J	1.0			4.0†	18 ☑	500u§♦	5.0Ø	1.0	5.0 #		300M§			DPE	MT72e	R
73	NS9608§	68m	12 Ø	§A			50	3.0	45	15uØ	5.0Ø	500m	50	150	500M§			PE	TO60	
74#	2SC1155†	70m	7.0 Ø	♦J	800m		70	5.0	60	1.0uØ	4.0Ø	300m	35 #	300 #	70M§	2.0	200n	PE†	X51b	P
75#	2SC1156†	70m	7.0 Ø	♦J	800m		90	5.0	80	1.0uØ	4.0Ø	300m	20 #	300 #	70M§	2.0	200n	PE†	X51b	P
76#	2SC1157†	70m	7.0 Ø	♦J	800m		110	5.0	100	1.0uØ	4.0Ø	300m	20 #	300 #	70M§	2.0	200n	PE†	X51b	P
77#	2SD204	71mØ	9.0 Ø	§J	700m		60	5.0	45	3.0uØ	2.0Ø	300m	40 #	200 #				PE	TO5	AØ
78	D28D10†	72m☑	1.0 #	§S	1.0			5.0	75	100n§	2.0Ø	100m	50	150	85M§	1.0	25nØ †		X51	F
79	2N5925	74m	13 Ø	§S	2.5		50 †	3.5†	35	25m§†									MT75d	R
80#	BLY16	74m	11 Ø	§J	1.5		64	3.0	64	10uØ	10	1.0	10		250M§			PE	MD23a	
81#	2SC1257	76mØ	11 Ø	§J	1.0		36	4.0	18	5.0uØ	10Ø	800m	15 #		380M§△			E	MT59d	S
82#	BD106	76m	12 Ø	§J	2.5		36	5.0		50nØ	2.0Ø	500m	50	300 *	100k§			PE	MD6h	CØ
83#	BD106A	76m	12 Ø	§J	2.5		36	5.0	36	500nØ	2.0Ø	500m	50	150	100M§	400m		PE	MD6g	AØ
84#	BD106B	76m	12 Ø	§J	2.5		36	5.0	36	500nØ	2.0Ø	500m	100	300	100M§	400m		PE	MD6g	AØ
85#	BD107	76m	12 Ø	§J	2.5		64	5.0		50nØ	2.0Ø	500m	50	300 *	100k§			PE	MD6h	CØ
86#	BD107A	76m	12 Ø	§J	2.5		64	5.0	64	500nØ	2.0Ø	500m	50	150	100M§	400m		PE	MD6g	AØ
87#	BD107B	76m	12 Ø	§J	2.5		64	5.0	64	500nØ	2.0Ø	500m	100	300	100M§	400m		PE	MD6g	AØ
88#	BDY15A	76m	12 Ø	§J	2.5 #		36	5.0	36 *	100nØ	2.0Ø	500m	50	150	100M§	400m		PE	MD23b	AØ
89#	BDY15B	76m	12 Ø	§J	2.5 #		36	5.0	36 *	100nØ	2.0Ø	500m	100	300	100M§	400m		PE	MD23b	AØ
90#	BDY16A	76m	12 Ø	§J	2.5 #		64	5.0	64	100nØ	2.0Ø	500m	50	150	100M§	400m		PE	MD23b	AØ
91#	BDY16B	76m	12 Ø	§J	2.5 #		64	5.0	64	100nØ	2.0Ø	500m	100	300	100M§	400m		PE	MD23b	AØ
92#	BLY15A	76m	12 Ø	§J	2.0		64	3.0	64	1.0uØ	10Ø	500m	20		180M§			PE	MD6g	AØ
93#	BDY15	77m	12 Ø	§J	2.5		36	5.0		100nØ	2.0Ø	500m	50 *	600 *	100k§			PE	MD6b	Ø
94#	BDY16	77m	12 Ø	§J	2.5		64	5.0		100nØ	2.0Ø	500m	50 *	300 *	100k§			PE	MD6b	Ø
95	A237	80m	10 Ø	§J	3.0		65	4.0	36		5.0Ø	500m	10		800M§	1.0		PE	MT59h	R
96#	BD119	80m	10	§J	400m		300	5.0	300		10Ø	500m	40	240	70M§			PL	TO66	
97#	BLY27	80m	12 Ø	§S	1.0		80	4.0	80 *	10uØ	10Ø	100m	10	50 Ø	200M§	2.4		PL	TO60	
98#	BLY28	80m	12 Ø	§S	1.0		80	4.0	80 *	10uØ	10Ø	100m	15	40 Ø	180M§	1.8		PL	TO60	
99#	BLY86	80m	10 Ø†	§J	400m		300	8.0	300		10Ø	100m	35	100 Ø	60M§			PL	TO66	A
100#	FT027	80m	13 Ø	§C	1.0		60	6.0	40	100u	15Ø	25m	20	40 Ø	60M§	12		ME	TO8	
101	MSP60A	80m	12	§J	1.0 #	400m	600	5.0	600 §	10uØ	10Ø	100m	30	200	30M§	2.0		DM	MD14	
102	MSP70A	80m	12	§J	1.0 #	400m	700	5.0	700 §	10uØ	10Ø	100m	30	200	30M§	2.0		DM	MD14	
103	SE7020	80m	10 Ø	§J	400m		300	5.0	300	10u	10Ø	50m	40	240 #	30M§			DPL	TO66	CØ
104#	SFT440	80m	12 Ø	§S	1.0		80	4.0	80	10uØ	10Ø	100m	10	50 Ø	200M§	2.4			TO60	
105#	SFT443A	80m	12 Ø	§S			80	4.0	80	10uØ	10Ø	100m	15	40 Ø	180M§	1.8			TO60	
106	NS9420	83m	15 Ø	§S	1.0		60	4.0	60 Ø	1.0 Ø	10Ø	25mØ	30	60 Ø	330M§	1.2		PE	MT31	A
107	2N2306	86m	13 Ø	§A	2.0	500m	75	5.0	50	1.0m	2.5Ø	1.0	10	75				△	TO8	
108	2N4262	86m	1.5 Ø	§S	200m		25	4.5	10	100n#	1.0Ø	30m	75		900M§△	15		△	TO102	AØ
109	2N4263	86m	1.5 Ø	§S	200m		25	4.5	10	100n#	1.0Ø	30m	75		900M§△	15		△	TO102	AØ
110#	2SC22	86m	13 Ø	§J	600m		75	5.0	50	2.0mØ	10Ø	150m	20	100 #	110M§	2.4		PE	TO8	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #L Y200 s/a TO200 Ser.	C E A D O D E
1#	2SC23	86m	13 Ø	§J	500m		75	5.0	50	5.0mØ	10Ø	150m	20	100 #	110M§	2.4		PE	TO8	
2#	2SC24	86m	12 Ø	§J	500m		100	5.0	70	5.0mØ	10Ø	150m	20	100 #	110M§	2.4		PE	TO8	
3#	2SC57	86mØ	2.0	§J	500m		75	4.0	40	30uØ	10Ø	150m	10 #	30 Ø	110M§	10		ME	TO8	
4#	2SC437	86m	13 Ø	§J	2.0		100	5.0	600m	10u	28Ø	350m	20 †		210M§			PL	TO8	Ø
5#	2SC438	86m	13 Ø	§J	2.0		75	5.0	600m	100u	28Ø	350m	20 †		210M§			PL	TO8	Ø
6	A253	86m	15	§J	1.3		36	4.0	18		5.0Ø	500m	50 Ø		800M§	1.0		PL	MT59h	V
7#	BLY37	86m			3.0 #		65	4.0	36		5.0Ø	1.0 Ø	50 Ø		700M§	500m		PL	MT59e	S
8#	BLY53	86m	10	§J	3.0 #		36	4.0	18		5.0Ø	1.0 Ø	50 Ø		700M§	1.0		PL	MT59e	S
9#	2SC1102	88mØ	11 Ø	§J	50m		300	7.0	300	100uØ	10Ø	10m	40	200	60M§△			ME	TO66	CØ
10	A271	90m	16 Ø	§J	750m		65	4.0	36	5.0m△	5.0Ø	500m	5.0		500M§	1.0		PE	MT72c	R
11	A275	90m	16 Ø	§J	1.2		36	4.0	18	5.0m△	5.0Ø	500m	5.0		700M§	1.0		PE	MT72c	R
12#	BLY91	90m	16	§J	750m		65	4.0	36	5.0m△	5.0Ø	500m	5.0		500M§	1.0		PE	MT72c	R
13	2N1841	100m	13 Ø	§J	2.0 Ø			6.0	50		10Ø	500m△	30	100 †	78M§	1.0		E	TO38	
14	2N2234†	100m#	10 Ø	§C	500m	150m	40	6.0	20	10u#♦	2.0Ø	100m	15	60	50M§△	2.5	30nØØ		TO3	CØ
15	2N2235†	100m#	10 Ø	§C	500m	150m	40	6.0	20	10u#♦	2.0Ø	100m	40	125	100M§△	2.5	25nØØ		TO3	CØ
16#	2SC106†	100m	15 Ø	§J	1.5	1.5 Ø	60	5.0	60 §	3.0m	12Ø	200m	7.5	20 Ø	100M§	3.0	25m	PE	TO8	
17#	2SC107†	100m	15 Ø	§J	1.0	1.0 Ø	60	5.0	60 §	3.0m	12Ø	200m	7.5	30 Ø	100M§	3.0	25m	PE	TO8	
18#	2SD70	100m	15 Ø	§J	3.0	500m	40	5.0	25	100uØ	2.0Ø	1.0	40	160 #		300m		PE	MD10	
19#	2SD71	100m	15 Ø	§J	3.0	500m	100	5.0	60	100uØ	2.0Ø	500m	40	160 #		1.0		PE	MD10	
20#	2SD142	100m	15 Ø	§J	3.0	500m	40	5.0	20	100uØ	2.0Ø	1.0	30	240 #		300m		PE	MD10	
21#	2SD143	100m	15 Ø	§J	2.0	500m	80	5.0	40	100uØ	2.0Ø	500m	30	240 #		1.5		PE	MD10	
22#	2SD144	100m	15 Ø	§J	2.0	500m	100	5.0	50	100uØ	2.0Ø	500m	30	240 #		1.5		PE	MD10	
23#	2SD152	100m	15 Ø	§J	1.0	500m	150	6.0	70	100uØ	2.0	500m	30	70 Ø		1.5		PE	MD10	
24	40546	100m	8.0 Ø	§J	150m	150m		2.0	250 #	100u	10Ø	50m	50	150	25M§			D	TO66	CØ
25	40547	100m	8.0 Ø	§J	150m	150m		2.0	250 #	100u	10Ø	50m	20	250	25M§			D	TO66	CØ
26#	BD120	100m	7.5	§J			150	5.0	150		10Ø	150m	170 Ø		30M§			PL	TO66	
27#	BLY10†	100m	3.0	§A	500m	150m	40	6.0	20	1.0uØ	1.6Ø	100m	8.0		100M§	16	120nØ	PLØ	TO3	Ø
28#	BLY11†	100m	3.0	§A	500m	150m	40	6.0	20	1.0uØ	2.5Ø	100m	40 Ø		150M§	12	120n	PLØ	TO3	Ø
29#	BLY15	100m	15 Ø	§J	2.5	500m	90	3.0	64	100uØ	10Ø	500m	20						TO3	
30#	BLY20	100m#	14 Ø	§J	2.0 #	200m	45	4.0	30		10Ø	500m△	5.0		200M§	2.0	30n#	PE	TO60	
31#	BLY21	100m#	14 Ø	§J	2.0 #	200m	70	4.0	45		10Ø	500m△	5.0		200M§	2.0	30n#	PE	TO60	
32	MHT4551	100m	18 Ø	§J	5.0	500m	80	8.0	40	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m	80n	PL	MT9	
33	MHT4552	100m	18 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m	80nØ	PL	MT9	
34	MHT4553	100m	18 Ø	§J	5.0	500m	80	8.0	40	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m	80nØ	PL	MT9	
35	MHT4554	100m	18 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m	80nØ	PL	MT9	
36	MHT4555	100m	18 Ø	§J	5.0	500m	80	8.0	40	1.0uØ	2.0Ø	1.0	100 #		30M§	500m	80nØ	PL	MT9	
37	MHT4556	100m	18 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	100 #		30M§	500m	80nØ	PL	MT9	
38	MHT4583	100m	18 Ø	§J	5.0	500m	60	5.0	40	1.0uØ	5.0Ø	1.0	20	60	30M§	500m	80nØ	PL	MT9	
39	MSP10A	100mØ	4.0	§A	2.0	500m	100	5.0	100 §	10u	10Ø	100m	25		30M	15		DM	MD14	
40	MSP15A	100mØ	4.0	§A	2.0	500m	150	5.0	150 §	10u	10Ø	100m	25		30M	15		DM	MD14	
41	MSP20A	100mØ	4.0	§A	2.0	500m	200	5.0	200 §	10u	10Ø	100m	25		30M	15		DM	MD14	
42	MSP25A	100mØ	4.0	§A	2.0	500m	250	5.0	250 §	10u	10Ø	100m	25		30M	15		DM	MD14	
43	MSP30A	100mØ	4.0	§A	2.0	500m	300	5.0	300 §	10u	10Ø	100m	25		30M	15		DM	MD14	
44	MSP35A	100mØ	4.0	§A	2.0	500m	350	5.0	350 §	10u	10Ø	100m	25		30M	15		DM	MD14	
45	MSP40A	100mØ	4.0	§A	2.0	500m	400	5.0	400 §	10u	10Ø	100m	25		30M	15		DM	MD14	
46	MSP45A	100mØ	4.0	§A	2.0	500m	450	5.0	450 §	10u	10Ø	100m	25		30M	15		DM	MD14	
47	MSP50A	100mØ	4.0	§A	2.0	500m	500	5.0	500 §	10u	10Ø	100m	25		30M	15		DM	MD14	
48	MSP55A	100mØ	4.0	§A	2.0	500m	550	5.0	550 §	10u	10Ø	100m	25		30M	15		DM	MD14	
49	MSP65A	100mØ	4.0	§A	2.0	500m	650	5.0	650 §	15u	10Ø	100m	25		30M	15		DM	MD14	
50	MSP75A	100mØ	4.0	§S	2.0	500m	750	5.0	750 §	15u	10Ø	100m	25		30m	15		DM	MD14	
51	S550	100m	11	§J	1.5		65	4.0	40	5.0m#	5.0Ø	250m	10	100	700M§△	4.0		PE		
52	S552	100m	11	§J	1.5		65	4.0	40	5.0m#	5.0Ø	250m	10	100	900M§△	4.0		PE		
53	S800	100m	17	§J	2.5		60	4.0	40	100uØ	5.0Ø	100m	150		200M§			PE	TO60	
54	S801	100m	17	§J	2.5		60	4.0	45	100uØ	5.0Ø	100m	50		200M§			PE	TO60	
55	S939†	100m	17	§J							1.5Ø	100m	15						TO39	
56	S1000	100m	17	§J	1.0		40	4.0	30	2.0m#	5.0Ø	100n	20		1.2G§			PE	MT66	
57	SDT4551	100m	18 Ø	§J	5.0	500m	80	8.0	40	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m	80n	PL	MT9	
58	SDT4552	100m	18 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m	80nØ	PL	MT9	
59	SDT4553	100m	18 Ø	§J	5.0	500m	80	8.0	40	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m	80nØ	PL	MT9	
60	SDT4554	100m	18 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m	80nØ	PL	MT9	
61	SDT4555	100m	18 Ø	§J	5.0	500m	80	8.0	40	1.0uØ	2.0Ø	1.0	100 #		30M§	500m	80nØ	PL	MT9	
62	SDT4556	100m	18 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	100 #		30M§	500m	80nØ	PL	MT9	
63	SDT4583	100m	18 Ø	§J	5.0	500m	60	5.0	40	1.0uØ	5.0Ø	1.0	20	60	30M§	500m	80nØ	PL	MT9	
64	SE7006	100m	12 Ø	§J	500m		150	5.0	150	10u△	10Ø	10m	30 #	80 Ø	60M§			DPL	TO66	CØ
65	STC1800	100m	18 Ø	§J	2.5		60	6.0	40	15u	4.0Ø	300m	20	80	2.5M†	5.0	900n	D	TO37	CØ
66	STC1850	100m	18 Ø	§J	3.0		80	6.0	60		4.0Ø	1.0	15	60	3.0M†	750m	900n	D△	TO37	
67	STC1860	100m	17	§J	3.0	1.0	90	7.0	55	1.0m#Ø	4.0Ø	500m	25	100		2.0		D	TO37	Ø
68	STC1861	100m	17	§J	3.0	1.0	160	7.0	140	5.0mØ	4.0Ø	500m	20	80		2.0		D	TO37	Ø
69	STC1862	100m	17	§J	3.0	1.0	50	5.0	40	1.0mØ	4.0Ø	1.5	25	100		1.0		D	TO37	Ø
70	STT2400	100m$	10 Ø	§J	7.5	1.0	150	12	150	1.0u§	15Ø	2.0	30	90 #	25M§			DPL△	TO5	A
71	STT2401	100m$	10 Ø	§J	7.5	1.0	140	12	120	1.0u§	15Ø	2.0	30	90 #	25M§			DPL△	TO5	A
72	STT2402	100m$	10 Ø	§J	7.5	1.0	140	12	120	1.0u§	15Ø	2.0	50	150 #	25M§			DPL△	TO5	A
73	STT2403	100m$	10 Ø	§J	7.5	1.0	120	12	100	1.0u§	15Ø	2.0	30	90 #	25M§			DPL△	TO5	A
74	STT2404	100m$	10 Ø	§J	7.5	1.0	100	12	80	1.0u§	15Ø	2.0	30	90 #	25M§			DPL△	TO5	A
75	STT2405	100m$	10 Ø	§J	7.5	1.0	75	10	60	1.0u§	15Ø	2.0	30	90 #	25M§			DPL△	TO5	A
76	STT2406	100m$	10 Ø	§J	7.5	1.0	40	10	30	500u§	15Ø	2.0	25 #		25M§			DPL△	TO5	A
77	V610	100mØ	18 Ø	§J	2.5		80	4.0	60	100nØ					200MØ			PE	MT31	
78	V611	100mØ	18 Ø	§J	2.5		80	4.0	60	10uØ					200MØ			PE	MT31	
79	V612	100mØ	18 Ø	§J	2.5		80	4.0	40	10uØ					200MØ			PE	MT31	
80	X30A	100m		$	.20	.03	40	1.0			20	.10	6.0		3.0M†	200		G		
81	X31A	100m		$	.16	.03	80	1.0			60	.10	6.0		3.0M†	200		G		
82	X32	100m			.14	.03	25	1.0			60	.10	3.0		3.0M†	200		G		
83	X32A	100m		$	.14	.03	25	1.0			60	.10	6.0		3.0M†	200		G		
84	RE3756	108m	18 Ø	J	2.0		55	3.5	30	4.0m	5.0	100	20		1.0G				MT59	
85	RE3780	108m	18 Ø	J	2.0		35	3.5	14	4.0m	5.0	100	20		1.0G				MT59	
86#	2SC599	114m	20 Ø	§J	1.5		60	4.0	40	500uØ	28Ø	100m	15 #	60 #	300M§△			PE†	MT59b	R
87#	2SC688	114m	20 Ø	§J	1.5		60	4.0	40	500uØ	10Ø	100m	5.0		300M§			PE	MT59b	GE
88	DPT2600	114m	20	§J			100	5.0	80 §		40Ø	.30	10							
89#	MTM360	114m	20 Ø	§J	1.2		70	4.0		100uØ	12Ø	100m	20	40 Ø				PE	MT59b	R
90	PT2622	114m	1.0	§J	1.0	400m	100	4.0	100 §	100m§	40Ø	300m	20	100 #					MT40	
91	PT2690	114m	1.0	§J	1.0		70	4.0	40	100u§	12Ø	100m	20	65 #					MT40	
92	PT3690	114m	20 Ø	§J	1.2	500m	70	4.0	40	100u§	12Ø	100m	20	65 #	400M	1.0		PL		
93#	ZT2887	114m	20 Ø	§J	1.2	400m	100	4.0	80 *	500u§Ø	25Ø	400m	15	100	420M§	1.2		PL	MT59	R
94#	XB437	115m	20 Ø	§J	2.0	700m	36	4.0	18						900M§			PE	TO117	
95#	BLY96	117m♦	10 ▼%	§J	2.0		55	3.5	31 ☑	2.0m	5.0Ø	2.0	10 #		500M			PE†	u93	☑
96#	2SD150	120mØ	15 Ø	§J	1.0	500m	50	5.0	40	1.0m	2.0Ø	1.0	30	240	10k§△			PE	MD10a	
97	MSA8505	120m	21 Ø	§J	3.0			4.0	33	5.0m§♦	5.0Ø	1.0	10 #		435M†	1.0		DPE	MT72a	R
98	RE3757	120m	20 Ø	J	1.2		50	4.0	30		5.0	50m	10		1.0G				MT59	
99	RE3781	120m	20 Ø	J	1.2		35	4.0	14		5.0	50m	10		1.0G				MT59	
100	2N2340†	125m$	10 Ø	§C	1.0	200m	50	4.0	40	6.0m#♦	6.0Ø	750m	10	40	550k△	5.3	400nØ		TO37	AØ
101	2N2341†	125m$	10 Ø	§C	1.0	200m	50	4.0	40	6.0m#♦	6.0Ø	750m	40	100	350k△	5.3	400nØ		TO37	AØ
102	2N2342†	125m$	10 Ø	§C	1.0	200m	100	4.0	60	6.0m#♦	6.0Ø	750m	10	40	550k△	4.0	400nØ		TO37	AØ
103	2N2343	125m$	10 Ø	§C	1.0	200m	100	4.0	40	6.0m#♦	6.0Ø	750m	40	100	350k△	3.3	400nØ		TO37	AØ
104#	BLY81	125m		§J	2.0		30	4.0	15	250u△Ø	5.0	2.0	15		400n§	600m		PE	u93	☑
105#	BLY87	125m§	12 ▼%	§J	2.0		30	4.0	15 *☑	2.0m	5.0Ø	2.0	15 #		175M			PE†	u93	☑
106	SN166	125m	20 Ø				60	3.0	60										MT24	
107	SN167	125m	20 Ø				65	1.0	65						130MØ				MT24	
108	SN171	125m	20 Ø				140	2.0	140						200MØ				MT24	
109	SN172	125m	20 Ø				120	2.0	120						100MØ				MT24	
110	SN173	125m	20 Ø				140	2.0	140						130MØ				MT24	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	SN230	125m	18 Ø	§A	4.0	2.0	65	1.0	65	100uØ	10	1.0	10	50 Ø	800M			ME	TO8	
2	SN231	125m	18 Ø	§A	4.0	2.0	140	1.0	140	100uØ	10	1.0	10	50 Ø	800M			ME	TO8	
3	SN232	125m	18 Ø	§A	4.0	2.0	65	1.0	65	100uØ	10	1.0	10	50 Ø	800M			ME	TO8	
4	SN234	125m	18 Ø	§A	4.0	2.0	140	1.0	140	100uØ	10	1.0	10	50 Ø	800M			ME	TO8	
5	X30	125m			.20	.03	40	1.0			20	.10	3.0		3.0M†	200		G		
6	X31	125m			.16	.03	80	1.0			60	.10	3.0		3.0M†	200		G		
7	MSA8507	126m	22 Ø	§J	2.0			4.0†	18 Ø	1.0m§♦	5.0Ø	1.0	5.0 #		500M§			DPE	MT72a	R
8	TIP27	129m§	2.0 Ø	§C	500m	100m	300	6.0	300	200u	10Ø	200m	25	150 #	2.0M§△	125		DM	X43	AØ
9	40342	131m	23 Ø	§J	3.0		65	4.0	40		5.0Ø	300m	10			2.0		PE	TO60	
10	40343	131m	23 Ø	§J	3.0		65	4.0	40		5.0Ø	300m	10			2.0		PE	TO60	
11	VX3733	131m	23 Ø	§J	3.0		65	4.0	40	250u△♦					400M§	2.0		PE		
12#	XB404	131m	23 Ø	§J	3.0	1.0	60	4.0	40						350M§			PE	TO60	
13#	2SC552	133m	20 Ø	§J	3.0		36	4.0	18	250u#	30Ø	600m	10		350M§	2.0		PE	TO60	
14#	2SD154	133mØ	20	§J	3.0	1.0	80	5.0	60	.10mØ	2.0Ø	2.0 Ø	40	145				PE	MD10	
15#	2SD155	133mØ	20 Ø	§J	3.0	1.0	80	5.0	60	1.0mØ	2.0Ø	2.0	4.0	145				ME	TO66	CØ
16#	2SD254	133mØ	20 Ø	§J	3.0	1.0	70	5.0	50	1.0mØ	2.0Ø	2.0	30 #	150 #				EM	MD10	CØ
17#	2SD255	133mØ	20 Ø	§J	3.0	1.0	70	5.0	50	1.0mØ	2.0Ø	2.0	30 #	150 #				EM	TO66	CØ
18#	3TE140	133m	20 Ø	§J	1.5		90	4.0	80	10uØ	5.0Ø	500m	20 #	80	275M§	330m		DE	TO3	Ø
19	A202	133m	23	§J	3.0		36	4.0	18	250u△					400M§			PE	TO60	A
20	TIP14†	133m	2.0	§C	4.0	2.0	80	7.0	60	50u§	5.0Ø	200m	30	150	40M§△		150nØ	PE	X43	
21#	XB413	133m	23		3.0	1.0	45	4.0	25	10m	1.0	3.0	5.0		400M§△				MT59	
22#	2SC1081	140mØ	27 Ø	§J	1.2		40	4.0	18	500uØ	10Ø	1.0	20 #		350M§△			E	MT59d	SØ
23	A572	140m	21		2.0	1.0	70	6.0	45		6.0	500m	35						TO3	
24#	2SD124	141mØ	21		6.0	3.0	60	10	40	.02mØ	4.0	1.5	10	75	500k†		1.3u	ME	TO3	
25#	2SD125	141mØ	21		6.0	3.0	100	10	55	.02mØ	4.0	1.5	10	75	500k†		1.3u	ME	TO3	
26	970	141mØ		$S	.14		120			.10m					100k†	200		G		
27	JAN2N2525	142m	3.0 #	§A	1.0		100	5.0	100 Ø	4.0uØ	45Ø	350m	10	40 #	455M§△	800m		PL	MT16a	
28#	2SC297	142m	10 Ø	§J	3.0	600m	70	5.0	40	3.0uØ	2.0Ø	1.0	25	52	90M§	400m	60n	PE	TO37	
29#	2SC298	142m	10 Ø	§J	3.0	600m	100	5.0	60	3.0uØ	2.0Ø	100m	30	173	90M§	400m	60n	PE	TO37	
30#	2SC299	142m	10 Ø	§J	3.0	600m	130	5.0	80	3.0uØ	2.0Ø	100m	30	173	90M§	400m	60n	PE	TO37	
31#	2SC452	142m	25 Ø	§J	1.2		100	4.0	1.2	500u	28Ø	100m	2.0 †	2.6 Ø	210M§			PL	MT39	
32#	2SC453	142m	25 Ø	§J	1.2		90	4.0	1.2	500u	28Ø	100m	1.8 †	2.4 Ø	210M§			PL	MT39	
33#	BD109	142m	15	§J	2.0	50m	60	5.0	40	100nØ			20	120	50M§△			PE	MD6b	
34	MHT4611	142m§	14 Ø	§J			60	8.0	40	1.0u		1.0	20	60	40M§				TO8	
35	MHT4612	142m§	14 Ø	§J			80	8.0	60	1.0uØ		1.0	20	60	40M§				TO8	
36	MHT4613	142m§	14 Ø	§J			100	8.0	80	1.0uØ		1.0	20	60	40M§				TO8	
37	MHT4614	142m§	14 Ø	§J			60	8.0	40	1.0u		1.0	40	120	60M§				TO8	
38	MHT4615	142m§	14 Ø	§J			80	8.0	60	1.0uØ		1.0	40	120	60M§				TO8	
39	MHT4616	142m§	14 Ø	§J			100	8.0	80	1.0uØ		1.0	40	120	60M§				TO8	
40	MHT4617	142m§	14 Ø	§J			60	8.0	40	1.0u		1.0	100		70M§				TO8	
41	MHT4618	142m§	14 Ø	§J			80	8.0	60	1.0uØ		1.0	100		70M§				TO8	
42	MHT4619	142m§	14 Ø	§J			100	8.0	80	1.0uØ		1.0	100		70M§				TO8	
43	MSA7505	142m	25 Ø	§J	3.0			4.0	33	5.0m§♦	5.0Ø	1.0	10 #		435M†	1.0		DPE	TO60	AØ
44	NPC12-1A†	142m	25 Ø	§J	2.5 †	1.0	80 †	6.0†	60	1.0u#♦	5.0Ø	500m	40	90 #	40M§△		100nØØ	PL	TO66	CØ
45	NPC12-1B†	142m	25 Ø	§J	2.5 †	1.0	80 †	6.0†	60	1.0u#♦	5.0Ø	500m	70	200 #	50M§△		100nØØ	PL	TO66	CØ
46	NPC12-2†	142m	25 Ø	§J	2.5 †	1.0	100 †	6.0†	80	1.0u#♦	5.0Ø	500m	40	90 #	40M§△		100nØØ	PL	TO66	CØ
47	NS9609§	142m	25 Ø	§A			50	3.0	45	150uØ	5.0Ø	500m	40	120	500M§	1.2		PE	TO61	
48	PT2634	142m	25 Ø	§J	1.2	400m	100	4.0	80		28Ø	350m	15 #		420M§△	1.2				
49	S1050	142m	25	§J	2.0		45	3.5	30	2.0m#	5.0Ø	500m	20		1.2G§			PE		
50	SB0319	142m	25 Ø	§J	3.0 †	1.0	60 †	5.0†	60 Ø	1.5m§♦	4.0Ø	1.5	20	130 #	1.0M§△			DME	TO66	CØ
51	SDT4611	142m§	14 Ø	§J			60	8.0	40	1.0u		1.0	20	60	40M§				TO8	
52	SDT4612	142m§	14 Ø	§J			80	8.0	60	1.0uØ		1.0	20	60	40M§				TO8	
53	SDT4613	142m§	14 Ø	§J			100	8.0	80	1.0uØ		1.0	20	60	40M§				TO8	
54	SDT4614	142m§	14 Ø	§J			60	8.0	40	1.0u		1.0	40	120	60M§				TO8	
55	SDT4615	142m§	14 Ø	§J			80	8.0	60	1.0uØ		1.0	40	120	60M§				TO8	
56	SDT4616	142m§	14 Ø	§J			100	8.0	80	1.0uØ		1.0	40	120	60M§				TO8	
57	SDT4617	142m§	14 Ø	§J			60	8.0	40	1.0u		1.0	100		70M§				TO8	
58	SDT4618	142m§	14 Ø	§J			80	8.0	60	1.0uØ		1.0	100		70M§				TO8	
59	SDT4619	142m§	14 Ø	§J			100	8.0	80	1.0uØ		1.0	100		70M§				TO8	
60	STC4401	142m	25 Ø	§J	4.0	2.0	50	5.0	40	1.0mØ	4.0Ø	1.5	25	100 #		100m		D	TO66	Ø
61	V800	142m	25 Ø	§S			140	1.0	140	750u	10Ø	1.0	10		100M§△			PL		
62#	3TE440	143m	25 Ø	§J	1.5		80	4.0	80	100uØ	5.0Ø	500m	10 #	60 #	350M§△	800m		PL	MT62	
63	MA4990	143m		§A	1.2	.40	70	5.0	60	.10mØ	28Ø	.35	15	80		.40		PE	MT39	
64	NS9540	143m	20				65	3.0	65										TO60	
65	STC1201	143m		§	3.0		100	12	100	15uØ	.50Ø	.50	20		2.5M†	1.0	.90u			CØ
66#	XB476	143m	25 Ø	§J	4.0	1.0	60	4.0	30						900M§			PE	TO117	
67#	BD109-6	144m	18 Ø*	§J	3.0	500m	60	5.0	40	100nØ	1.0Ø	1.0	40	100	30M§△		300mØØ	PE	MD17c	TØ
68#	BD109-10	144m	18 Ø*	§J	3.0	500m	60	5.0	40	100nØ	1.0Ø	1.0	63	160	30M§△		300nØØ	PE	MD17c	TØ
69#	BD109-16	144m	18 Ø*	§J	3.0	500m	60	5.0	40	100nØ	1.0Ø	1.0	100	250	30M§△		300nØØ	PE	MD17c	TØ
70#	BUY16†	149m§	15 Ø	§J	10		150	6.0	80	10u§	2.0Ø	2.0	40	120 #	100M§	120m	500nØØ	DPE	TO59	AØ
71#	BUY17†	149m§	15 Ø	§J	10		120	6.0	60	10u§	2.0Ø	2.0	100	300 #	100M§	120m	500nØØ	DPE	TO59	AØ
72	FT34A†	151m§	15 §	§J	10		150	6.0	80	10u§	2.0Ø	2.0 Ø	40	120 #	80M§△	120m	500nØØ	DPE	TO59	
73	FT34B†	151m§	15 §	§J	10		120	6.0	60	10u§	2.0Ø	2.0 Ø	100	300 #	80M§△	120m	500nØØ	DPE	TO59	
74#	2SC447	153m	23 Ø	§J	2.0		75	4.0		50uØ	28Ø	350m	5.0		140M§△			DPL	MT39	A
75#	2SC448	153m	5.0 Ø	§J	2.0		100	5.0	600m	10u	28Ø	100m	2.0 †	2.7 Ø	210M§			PL	MT39	
76#	2SC449	153m	5.0 Ø	§J	2.0		75	5.0	600m	100u	28Ø	100m	2.0 †	2.7 Ø	210M§			PL	MT39	
77#	2SC450	153m	5.0 Ø	§J	2.0		60	4.0	600m	100u	28Ø	100m	2.0 †	3.0 Ø	210M§			PL	MT39	
78#	2SC451	153m	28 Ø	§J	1.2		100	4.0		100uØ	28Ø	350m	15	30 Ø	140M§△			DPL	MT39	A
79#	2SC1258	153mØ	23 Ø	§J	2.0		36	4.0	18	100uØ	10Ø	1.5	15 #		250M§△			E	MT59d	S
80	TIP24	153m	2.0	§C	2.0	500m	70	9.0	70 §	250u§†	5.0Ø	1.5	19	136 *	10M§△	1.0		PE	X43	
81#	2SC50	160m	20 Ø	§J	4.0		180	5.0		120uØ	5.0Ø	4.0	40 Ø		60M§			DM	TO66	
82#	2SD57	160m	20 Ø	§J	3.0	1.0	30	10	20	200uØ	4.0Ø	1.0	20	180	3.5M†			D	MD17	CØ
83#	2SD58	160m	20 Ø	§J	3.0	1.0	60	10	40	40uØ	4.0Ø	1.0	20	180	3.5M†			D	MD17	CØ
84#	BD400	160m	1.2	§S	1.0		170	6.0	100	10u△	2.0Ø	1.0	20		65M§	750m		PE†	X100a	D
85	ND5004	160m	20	S	5.0	2.0	60	8.0	40	100m	5.0	1.0	20		100M§			PE	X51c	B
86	SG0034†	160m	28 Ø	§J	10 †	2.0	80 †	6.0†	60 Ø*	10u§♦	2.0Ø	2.0	30	120 #	50M§△		300nØ	DPE	TO59	A
87	SG0034A†	160m	28 Ø	§J	10 †	2.0	80 †	6.0†	60 Ø*	10u§♦	2.0Ø	2.0	100	300 #	80M§△		300nØ	DPE	TO59	A
88	SG6207	160m	24 Ø#	§J	2.0 †			6.0†	80 Ø*	10u§♦	5.0Ø	1.0	30	90 #	50M§△			DPL	TO59	A
89	SG6207A	160m	24 Ø#	§J	2.0 †			6.0†	80 Ø*	10u§♦	5.0Ø	1.0	70	300 #	60M§△			DPL	TO59	A
90	1571-32	166m	29 Ø	§C	4.0	2.0	80	7.0	80	1.0m#	4.0Ø	500m	25		30k§△	2.0			TO66	
91	1571-33	166m	29 Ø	§C	4.0	2.0	100	7.0	100	1.0m#	4.0Ø	500m	25		30k§△	2.0			TO66	
92	1571-34	166m	29 Ø	§C	4.0	2.0	120	7.0	120	1.0m#	4.0Ø	500m	25		30k§△	2.0			TO66	
93	1571-35	166m	29 Ø	§C	4.0	2.0	140	7.0	140	1.0m#	4.0Ø	500m	25		30k§△	2.0			TO66	
94	1571-36	166m	29 Ø	§C	4.0	2.0	160	7.0	160	1.0m#	4.0Ø	500m	25		30k§△	2.0			TO66	
95	1571-41	166m	29 Ø	§C	4.0	2.0	60	7.0	60	1.0m#	4.0Ø	500m	20		30k§△	2.0			TO66	
96	1571-42	166m	29 Ø	§C	4.0	2.0	80	7.0	80	1.0m#	4.0Ø	500m	20		30k§△	2.0			TO66	
97	1571-43	166m	29 Ø	§C	4.0	2.0	100	7.0	100	1.0m#	4.0Ø	500m	20		30k§△	2.0			TO66	
98	1571-44	166m	29 Ø	§C	4.0	2.0	120	7.0	120	1.0m#	4.0Ø	500m	20		30k§△	2.0			TO66	
99	1571-46	166m	29 Ø	§C	4.0	2.0	160	7.0	160	1.0m#	4.0Ø	500m	20		30k§△	2.0			TO66	
100	A272	166m	29 Ø	§J	1.5		65	4.0	36	10m△	5.0Ø	500m	5.0		500M§	600m		PE	MT72c	R
101	A276	166m	29 Ø	§J	2.5		36	4.0	18	10m△	5.0Ø	500m	5.0		700M§	600m		PE	MT72c	R
102#	BD148	166m	24 *Ø	§J	4.0	2.0		7.0	60 Ø	2.0m§	1.5Ø	500m	40	250	1.0M§			D	MD17f	AØ
103#	BD149	166m	24 *Ø	§J	4.0	2.0		7.0	80 Ø	2.0m§	1.5Ø	500m	40	160	1.0M§			D	MD17f	AØ
104#	BLY88	166m	29 Ø	§J	2.5		36	4.0	18	10m△	5.0Ø	500m	5.0		700M§	600m			MT72	GCØ
105#	BLY92	166m	29	§J	1.5		65	4.0	36	10m△	5.0Ø	500m	5.0		500M§	600m		PE	MT72c	R
106#	BUY43	166m	24 Ø*	§J	4.0	2.0		7.0	40	1.0m§	1.5Ø	500m	40	60	1.0M§			D△	MD17e	CØ
107	MHT5901	166m§	16 Ø	§J	2.0	500m	60	8.0	40	100nØ	2.0	500m	50	150 #	50M§△	700m		PL	TO66	CØ
108	MHT5902	166m§	16 Ø	§J	2.0	500m	80	8.0	60	100nØ	2.0	500m	50	150 #	50M§△	700m		PL	TO66	CØ
109	MHT5903	166m§	16 Ø	§J	2.0	500m	100	8.0	80	100nØ	2.0	500m	50	150 #	50M§△	700m		PL	TO66	CØ
110	MHT5904	166m§	16 Ø	§J	2.0	500m	140	8.0	100	100nØ	2.0	500m	50	150 #	50M§△	700m		PL	TO66	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG.
1	MHT5905	166m$	16 Ø	$J	2.0	500m	180	8.0	120	100nØ	2.0	500m	50	150 #	50M$Δ	700m		PL	TO66	CØ
2	MHT5906	166m$	16 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	30 #		50M$Δ			PL	TO66	CØ
3	MHT5907	166m$	16 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	30 #		50M$Δ			PL	TO66	CØ
4	MHT5908	166m$	16 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	30 #		50M$Δ			PL	TO66	CØ
5	MHT5909	166m$	16 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	30 #		50M$Δ			PL	TO66	CØ
6	MHT5910	166m$	16 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	30 #		50M$Δ			PL	TO66	CØ
7	MHT5911	166m$	16 Ø	$J	2.0	500m	60	8.0		100nØ	2.0Ø	500m	120 #		50M$Δ			PL	TO66	CØ
8	MHT5912	166m$	16 Ø	$J	2.0	500m	80	8.0		100nØ	2.0Ø	500m	120 #		50M$Δ			PL	TO66	CØ
9	MHT5913	166m$	16 Ø	$J	2.0	500m	100	8.0		100nØ	2.0Ø	500m	120 #		50M$Δ			PL	TO66	CØ
10	MHT5914	166m$	16 Ø	$J	2.0	500m	140	8.0		100nØ	2.0Ø	500m	120 #		50M$Δ			PL	TO66	CØ
11	MHT5915	166m$	16 Ø	$J	2.0	500m	180	8.0		100nØ	2.0Ø	500m	120 #		50M$Δ			PL	TO66	CØ
12#	BLY29†	171m	30 Ø	$J	3.0		100	5.0	80	100n#	2.0Ø	1.0	30	90 #	46M$		300nØØ	DPE	TO59	
13#	BLY30†	171m	30 Ø	$J	3.0		100	5.0	80	100n#	2.0Ø	1.0	50	150 #	50M$		300nØØ	DPE	TO59	
14#	BLY66	171m#	30 Ø	$J	3.0		80	6.0	60	10u$	5.0Ø	1.0	30 #	70 Ø	100M$			DPE	TO59	A
15	2N1978	172m$	30 Ø	$J			60	5.0	25	10uØ	5.0Ø	500m	20		40M$Δ	1.5		MT8	AØ
16	TN301†	172m	30 Ø	§A	3.0		100	5.0	80		1.0Ø	50m	50 Ø		40M$	250m	50n	PE	MT47	
17	TN302†	172m	30 Ø	§A	3.0		100	5.0	80		1.0Ø	50m	15	25 Ø	40M$	400m	60n	PE	MT47	
18	TN303†	172m	30 Ø	§A	3.0		60	5.0	40		1.0Ø	50m	25	50 Ø	40M$	250m	50n	PE	MT47	
19	TN304†	172m	30 Ø	§A	3.0		60	5.0	40		1.0Ø	50m	15	25 Ø	20M$	250m	60n	PE	MT47	
20#	XB408	175m	30 Ø	$J	5.0 †	1.5	65 †	4.0	40	20m#†	5.0Ø	250m	10	150 #				PE	TO60	
21	2N5017	200m#	30 Ø	§S	4.5	1.5	65	4.0	30		4.0Ø	500m	10	200	500M$Δ				MT67	L
22	2N5919	200m$	25 Ø	§S	1.5		65 †	4.0†	30	10m§†									MT78	R
23#	2SC679	200m	30 ΔØ	$J	2.0	1.0	300	6.0	300 ☑		10Ø	100m	35	200	230k				MD10†	AØ
24#	2SD234O	200m	1.5	$J	3.0	3.0 Ø	60	10	50	200uØ	5.0Ø	500m	70	140	1.0M§	400m		D	X75	D
25#	2SD234R	200m	1.5	$J	3.0	3.0 Ø	60	10	50	200uØ	5.0Ø	500m	40	80	1.0M§	400m		D	X75	D
26#	2SD234Y	200m	1.5	$J	3.0	3.0 Ø	60	10	50	200uØ	5.0Ø	500m	120	240	1.0M§	400m		D	X75	D
27#	2SD235O	200m	1.5	$J	3.0	3.0 Ø	40	10	35	200uØ	5.0Ø	500m	70	140	1.0M§	1.0		D	X75	D
28#	2SD235R	200m	1.5	$J	3.0	3.0 Ø	40	10	35	200uØ	5.0Ø	500m	40	80	1.0M§	1.0		D	X75	D
29#	2SD235Y	200m	1.5	$J	3.0	3.0 Ø	40	10	35	200uØ	5.0Ø	500m	120	240	1.0M§	1.0		D	X75	D
30#	3TE240	200m	25	$J	3.0		80	4.0	80	10uØ	5.0Ø	1.5	10	60	200M§	300m		PE	TO3	
31	20C1	200m	15 Ø	$J	4.0	1.0	175	15	120	5.0m	5.0Ø	4.0	30	90	10M§	750m		DM	TO5	
32	1711-0402	200m	35 Ø	$J	5.0	2.0	50	7.0	40 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO59	Ø
33	1711-0405	200m	35 Ø	$J	5.0	2.0	50	7.0	40 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO59	Ø
34	1711-0602	200m	35 Ø	$J	5.0	2.0	70	7.0	60 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO59	Ø
35	1711-0605	200m	35 Ø	$J	5.0	2.0	70	7.0	60 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO59	Ø
36	1711-0802	200m	35 Ø	$J	5.0	2.0	90	7.0	80 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO59	Ø
37	1711-0805	200m	35 Ø	$J	5.0	2.0	90	7.0	80 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO59	Ø
38	1711-1002	200m	35 Ø	$J	5.0	2.0	110	7.0	100 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO59	Ø
39	1711-1005	200m	35 Ø	$J	5.0	2.0	110	7.0	100 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO59	Ø
40	1711-1202	200m	35 Ø	$J	5.0	2.0	130	7.0	120 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO59	Ø
41	1711-1205	200m	35 Ø	$J	5.0	2.0	130	7.0	120 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO59	Ø
42	1711-1402	200m	35 Ø	$J	5.0	2.0	150	7.0	140 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO59	Ø
43	1711-1405	200m	35 Ø	$J	5.0	2.0	150	7.0	140 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO59	Ø
44	1711-1602	200m	35 Ø	$J	5.0	2.0	170	7.0	160 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO59	Ø
45	1711-1605	200m	35 Ø	$J	5.0	2.0	170	7.0	160 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO59	Ø
46	1711-1802	200m	35 Ø	$J	5.0	2.0	190	7.0	180 ☑	4.0m#	4.0Ø	2.0	15 #		40M§Δ			EM	TO59	
47	1717-0402	200m	35 Ø	$J	5.0	2.0	50	7.0	40 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO62	Ø
48	1717-0405	200m	35 Ø	$J	5.0	2.0	50	7.0	40 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO62	Ø
49	1717-0602	200m	35 Ø	$J	5.0	2.0	70	7.0	60 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO62	Ø
50	1717-0605	200m	35 Ø	$J	5.0	2.0	70	7.0	60 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO62	Ø
51	1717-0802	200m	35 Ø	$J	5.0	2.0	90	7.0	80 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO62	Ø
52	1717-0805	200m	35 Ø	$J	5.0	2.0	90	7.0	80 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO62	Ø
53	1717-1002	200m	35 Ø	$J	5.0	2.0	110	7.0	100 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO62	Ø
54	1717-1005	200m	35 Ø	$J	5.0	2.0	110	7.0	100 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO62	Ø
55	1717-1202	200m	35 Ø	$J	5.0	2.0	130	7.0	120 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO62	Ø
56	1717-1205	200m	35 Ø	$J	5.0	2.0	130	7.0	120 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO62	Ø
57	1717-1402	200m	35 Ø	$J	5.0	2.0	150	7.0	140 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO62	Ø
58	1717-1405	200m	35 Ø	$J	5.0	2.0	150	7.0	140 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO62	Ø
59	1717-1602	200m	35 Ø	$J	5.0	2.0	170	7.0	160 ☑	4.0m#	4.0Ø	2.0	15 #		60M§Δ			EM	TO62	Ø
60	1717-1605	200m	35 Ø	$J	5.0	2.0	170	7.0	160 ☑	4.0m#	4.0Ø	5.0	15 #		60M§Δ			EM	TO62	Ø
61	1717-1802	200m	35 Ø	$J	5.0	2.0	190	7.0	180 ☑	4.0m#	4.0Ø	2.0	15 #		40M§Δ			EM	TO62	
62	A235	200m	12 Ø	$J	2.5			4.0	33		5.0Ø	1.0	10	220	450M§				TO60	
63	A702	200m	8.0 Ø	†J	250m		400	5.0	400 §	3.0m	20Ø	200m	20		12M§			PE	TO3	CØ
64	B3585	200m	35 Ø$	§C	5.0		60	8.0	40	1.0uØ		1.0	20	60	30M§	500m		PE	TO61	Ø
65	B3586	200m	30 Ø$	§C	5.0		80	8.0	60	1.0uØ		1.0	20	60	30M§	500m		PE	TO61	Ø
66	B3587	200m	30 Ø$	§C	5.0		100	8.0	80	1.0mØ		1.0 Ø	20	60	30M§	500m		PE	TO61	Ø
67	B3588	200m	30 Ø$	§C	5.0		60	8.0	40	1.0mØ		1.0 Ø	40	120	30M§	500m		PE	TO61	Ø
68	B3589	200m	30 Ø$	§C	5.0		80	8.0	60	1.0mØ		1.0 Ø	40	120	30M§	500m		PE	TO61	Ø
69	B3590	200m	30 Ø$	§C	5.0		100	8.0	80	1.0mØ		1.0 Ø	40	120	30M§	500m		PE	TO61	Ø
70	B3591	200m	30 Ø$	§C	5.0		60	8.0	40	1.0mØ		1.0 Ø	100		30M§	500m		PE	TO61	Ø
71	B3592	200m	30 Ø$	§C	5.0		80	8.0	60	1.0mØ		1.0 Ø	100		30M§	500m		PE	TO61	Ø
72	B3593	200m	30 Ø$	§C	5.0		100	8.0	80	1.0mØ		1.0 Ø	100		30M§	500m		PE	TO61	Ø
73	B3618	200m	40 Ø$	§C	10		60	5.0	40	1.0uØ		5.0 Ø	20	60	15M§Δ	100m		PE	TO61	Ø
74	B3619	200m	40 Ø$	§C	10		80	5.0	60	1.0uØ		5.0 Ø	20	60	15M§Δ	100m		PE	TO61	Ø
75	B3620	200m	40 Ø$	§C	10		100	5.0	80	1.0uØ		5.0 Ø	20	60	15M§Δ	100m		PE	TO61	Ø
76	B3621	200m	40 Ø$	§C	10		60	5.0	40	1.0uØ		5.0 Ø	40	120	15M§Δ	100m		PE	TO61	Ø
77	B3622	200m	40 Ø$	§C	10		80	5.0	60	1.0uØ		5.0 Ø	40	120	15M§Δ	100m		PE	TO61	Ø
78	B3623	200m	40 Ø$	§C	10		100	5.0	80	1.0uØ		5.0 Ø	40	120	15M§Δ	100m		PE	TO61	Ø
79	B3624	200m	40 Ø$	§C	10		60	5.0	40	1.0uØ		5.0 Ø	100		15M§Δ	100m		PE	TO61	Ø
80	B3625	200m	40 Ø$	§C	10		80	5.0	60	1.0uØ		5.0 Ø	100		15M§Δ	100m		PE	TO61	Ø
81	B3626	200m	40 Ø$	§C	10		100	5.0	80	1.0uØ		5.0 Ø	100		15M§Δ	100m		PE	TO61	Ø
82#	BD112	200m#	20 Ø	$J			80	5.0	60	10uØ	10Ø	1.0	50 #	130 Ø	30M§Δ			DPE	TO3	
83#	BD113	200m		$	10	2.0	60	5.0	60	10u	2.0Ø	2.0	40	90 Ø	100M§			PE	TO3	A
84#	BD116	200m#	15 Ø	$J	3.0		80	5.0	60	10uØ	2.0	2.0	20 #		30M§Δ			PE	TO3	
85#	BD118	200m#	20 Ø	$J			80	5.0	60	10uØ	5.0Ø	1.0	30 #	90 Ø	30M§Δ			DPE	TO3	
86#	BD145	200m	15 Ø$	$J	5.0	1.0	60	5.0	60	10u	10Ø	500m	45		100M§	214m	280u†Ø	PEΔ	TO3	CØ
87#	BD251	200m	20	$J	3.0		40	5.0	40		5.0	2.0	20	25 Ø	46M§			PE	TO3	
88#	BUY19†	200m$	20 Ø	$J	10		80	6.0	40	10u$	2.0Ø	2.0	40 #	85 Ø	100M§		150nØ	DPE	TO59	AØ
89#	C434†	200m$	15 Ø	$J			100	6.0	50	10uØ	2.0Ø	2.0	30 #	100 Ø	100M§		250nØ	DPE	TO3	CØ
90#	CP400	200m$	15 Ø	$J			40	5.0	40	10uØ	5.0Ø	2.0	25 #	75 Ø	45M§			DPE	TO3	CØ
91#	CP401	200m$	15 Ø	$J			60	5.0	60	10uØ	5.0Ø	2.0	25 #	75 Ø	45M§			DPE	TO3	CØ
92#	CP402	200m$	15 Ø	$J			100	5.0	100	10uØ	5.0Ø	2.0	25 #	75 Ø	45M§			DPE	TO3	CØ
93#	CP404	200m$	15 Ø	$J			80	5.0	60	10uØ	5.0Ø	1.0	30	120 #	40M§			DPE	TO3	CØ
94#	CP405	200m$	15 Ø	$J			80	5.0	60	10uØ	5.0Ø	2.0	50	150 #	50M§			DPE	TO3	CØ
95#	CP406†	200m$	15 Ø	$J	10		60	5.0	60	10uØ	10Ø	2.0	40 #	120 Ø	100M§		500nØØ	DPE	TO3	CØ
96#	CP407†	200m$	15 Ø	$J	5.0		60	5.0	60	10uØ	10Ø	500m	30 #	140 Ø	100M§		500nØØ	DPE	TO3	CØ
97#	CP408†	200m$	15 Ø	$J	2.0		40	5.0	40	10uØ	10Ø	500m	30 #	150 Ø	100M§		500nØØ	DPE	TO3	CØ
98#	CP701	200m	15 §	$J	5.0		60	5.0	40	10u§♦	2.0Ø	2.0	30 #	70 Ø	40M§Δ		1.0u†	DPE	TO3	Ø
99#	CP702	200m	15 §	$J	3.0		60	5.0	40	10u§♦	5.0Ø	1.0	30 #	70 Ø	20M§Δ	500m		DPE	TO3	Ø
100	MHT6901	200m	20		5.0	.50	145	8.0	125	1.0u	2.0	1.0	20	60	50M				TO66	
101	MHT6902	200m	20		5.0	.50	170	8.0	150	1.0u	2.0	1.0	20	60	50M				TO66	
102	MHT6903	200m	20		5.0	.50	195	8.0	175	1.0u	2.0	1.0	20	60	50M				TO66	
103	MHT6904	200m	20		5.0	.50	220	8.0	200	1.0u	2.0	1.0	20	60	50M				TO66	
104	MHT6905	200m	20		5.0	.50	145	8.0	125	1.0u	2.0	1.0	40	120	50M				TO66	
105	MHT6906	200m	20		5.0	.50	170	8.0	150	1.0u	2.0	1.0	40	120	50M				TO66	
106	MHT6907	200m	20		5.0	.50	195	8.0	175	1.0u	2.0	1.0	40	120	50M				TO66	
107	MHT6908	200m	20		5.0	.50	220	8.0	200	1.0u	2.0	1.0	40	120	50M				TO66	
108	MHT7511	200m$	20 Ø	$J			60	5.0	40	1.0u		5.0	20	60	40M§				TO8	
109	MHT7512	200m$	20 Ø	$J			80	5.0	60	1.0uØ		5.0	20	60	40M§				TO8	
110	MHT7513	200m$	20 Ø	$J			100	5.0	80	1.0uØ		5.0	20	60	40M§				TO8	

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	TYPE No.	MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAT EXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	MHT7514	200m$	20 Ø	§J			60	5.0	40	1.0u		5.0	40	120	50M§				TO8	
2	MHT7515	200m$	20 Ø	§J			80	5.0	60	1.0uØ		5.0	40	120	50M§				TO8	
3	MHT7516	200m$	20 Ø	§J			100	5.0	80	1.0uØ		5.0	40	120	50M§				TO8	
4	MHT7517	200m$	20 Ø	§J			60	5.0	40	1.0u		5.0	100		60M§				TO8	
5	MHT7518	200m$	20 Ø	§J			80	5.0	60	1.0uØ		5.0	100		60M§				TO8	
6	MHT7519	200m$	20 Ø	§J			100	5.0	80	1.0uØ		5.0	100		60M§				TO8	
7	SDT7511	200m$	20 Ø	§J			60	5.0	40	1.0u		5.0	20	60	40M§				TO8	
8	SDT7512	200m$	20 Ø	§J			80	5.0	60	1.0uØ		5.0	20	60	40M§				TO8	
9	SDT7513	200m$	20 Ø	§J			100	5.0	80	1.0uØ		5.0	20	60	40M§				TO8	
10	SDT7514	200m$	20 Ø	§J			60	5.0	40	1.0u		5.0	40	120	50M§				TO8	
11	SDT7515	200m$	20 Ø	§J			80	5.0	60	1.0uØ		5.0	40	120	50M§				TO8	
12	SDT7516	200m$	20 Ø	§J			100	5.0	80	1.0uØ		5.0	40	120	50M§				TO8	
13	SDT7517	200m$	20 Ø	§J			60	5.0	40	1.0u		5.0	100		60M§				TO8	
14	SDT7518	200m$	20 Ø	§J			80	5.0	60	1.0uØ		5.0	100		60M§				TO8	
15	SDT7519	200m$	20 Ø	§J			100	5.0	80	1.0uØ		5.0	100		60M§				TO8	
16	SE3030	200m§	15 Ø	$J	10	2.0	150	5.0	60	10uØ	10Ø	500m	150 Ø	#	100M§		1.0u#Ø	DPE	TO3	CØ
17	SE3031	200m§	15 Ø	$J	10	2.0	150	5.0	60	10uØ	10Ø	500m	125 Ø	#	100M§		1.0u#Ø	DPE	TO3	CØ
18	SE3032	200m§	15 Ø	$J	10	2.0	60	5.0	60	10uØ	10Ø	500m	150 Ø	#	100M§		1.0u#Ø	DPE	TO3	CØ
19	SE3033	200m§	15 Ø	$J	10	2.0	60	5.0	60	10uØ	10Ø	500m	125 Ø	#	100M§		1.0u#Ø	DPE	TO3	CØ
20	SE3035	200m#	20 Ø	$J			40	5.0	40	10uØ	5.0Ø	500m	30	260 #				DPL	TO3	CØ
21	SE3036	200m§	15 Ø	$J			40	5.0	40	10uØ	5.0Ø	500m	30	260 #				DPE	TO3	CØ
22	SE3040	200m§	15 Ø	$J	5.0	2.0	80	6.0	40	1.0u§	2.0Ø	2.0	40	120 #	120M§		300nØ	DPE	TO66	CØ
23	SE3041	200m§	15 Ø	$J	5.0	2.0	120	6.0	60	1.0u§	2.0Ø	2.0	40	120 #	120M§		300nØ	DPE	TO66	CØ
24	SE9060	200m		$J	2.0			6.0	80 Ø	10u§♦	5.0Ø	1.0	30	90 #	50M△			DPL	MD10e	Ø
25	SE9061	200m		$J	2.0			6.0	80 Ø	10u§♦	5.0Ø	1.0	70	300 #	60M△			DPL	MD10e	Ø
26	SE9062	200m		$J	2.0			6.0	100 Ø	10u§♦	5.0Ø	1.0	30	90 #	50M△			DPL	MD10e	Ø
27	SE9063	200m		$J	2.0			6.0	100 Ø	10u§♦	5.0Ø	1.0	70	300 #	60M△			DPL	MD10e	Ø
28	STC1311	227mØ		§J	1.5		80		60		4.0Ø	.50	12 †	36		5.0			TO57	
29	STC1312	227mØ		§J	1.5		120		60		4.0Ø	.50	12 †	36		5.0			TO57	
30	STC1313	227mØ		§J	1.5		80		60		4.0Ø	.50	30 †	90		5.0			TO57	
31	STC1314	227mØ		§J	1.5		120		60		4.0Ø	.50	30 †	90		5.0			TO57	
32	STC1331	227mØ		§J	1.5		80		60		4.0Ø	.50	75 †	150		5.0			TO57	
33	STC1332	227mØ		§J	1.5		120		60		4.0Ø	.50	75 †	150		5.0			TO57	
34	2N1047C	228m	1.0	§J	1.0	750m	80	10	80	10u	10Ø	500m	12	36 #	125kΔ				TO57	AØ
35	2N1048C	228m	1.0	§J	1.0	750m	120	10	120	10u	10Ø	500m	12	36 #	125kΔ				TO57	AØ
36	2N1049C	228m	1.0	§J	1.0	750m	80	10	80	10u	10Ø	500m	30	90 #	125kΔ				TO57	AØ
37	2N1050C	228m	1.0	§J	1.0	750m	120	10	120	10u	10Ø	500m	30	90 #	125kΔ				TO57	AØ
38#	BDY87	228m	35 Ø*	§J	8.0	500m	20	7.0	20	500u	2.0Ø	500m	2.0k					DΔ	L55c	
39#	BDY88	228m	35 Ø*	§J	8.0	500m	40	7.0	40	500u	2.0Ø	500m	2.0k					DΔ	L55c	
40#	BDY89	228m	35 Ø*	§J	8.0	500m	60	7.0	60	500u	2.0Ø	500m	2.0k					DΔ	L55c	
41	RE3797	228m	40 Ø	J	4.0		55	4.0	35		5.0	100m	10		500M				MT72	
42	RE3798	228m	40 Ø	J	4.0		55	4.0	35		5.0	100m	10		500M					
43	STC1300	229m	40 Ø	§J	1.5		60	6.0	40		4.0Ø	300m	20	80	2.5M†	5.0	900n	DΔ	TO57	
44	STC1336	229m	40 Ø	§J				6.0	40	15uØ	10Ø	200m	30	90	2.5M†	15	900n	DΔ	TO57	
45#	2SC765	237m	30 Ø	§J	4.0		60	5.0	40	1.0mØ	4.0Ø	1.0	20	180				ME	TO3	
46#	2SC766	240m	30 Ø	§J	2.0		120	5.0	80	1.0mØ	4.0Ø	1.0	20	180				ME	TO3	CØ
47#	2SC767	240m	30 Ø	§J	2.0		180	5.0	120	1.0mØ	4.0Ø	1.0	20	180				ME	TO3	CØ
48	2N5425†	250m§	32 Ø	§S	5.0	100m	60 †	7.0†	60	1.0uØ♦	2.5Ø	5.0	500 #		50M§△		300nØØ		R117a	A
49	2N5426†	250m§	32 Ø	§S	5.0	100m	60 †	7.0†	60	1.0uØ♦	2.2Ø	5.0	1.0k#		50M§△		300nØØ		R117a	A
50	1714-1805†	250m	25 Ø$	§J	10	2.0	190	7.0	180 Ø		2.0Ø	5.0	20 #		40M§△		400nØØ	E	TO66	CØ
51	A273	250m	44 Ø	§J	2.0		65	4.0	36	10mΔ	5.0Ø	500m	5.0		500M§	600m		PE	MT72c	R
52	A277	250m	44 Ø	§J	3.5		36	4.0	18	10mΔ	5.0Ø	500m	5.0		700M§	600m		PE	MT72c	
53	B149000	250m	25	§J	10	2.0	50	5.0	40	1.0m§							2.0u	Δ	TO60	A
54	B149001	250m	25	§J	10	2.0	50	5.0	40	1.0m§							2.0u	Δ	TO60	A
55	B149002	250m	25	§J	10	2.0	70	5.0	60	1.0m§							2.0u	Δ	TO60	A
56	B149003	250m	25	§J	10	2.0	70	5.0	60	1.0m§							2.0u	Δ	TO60	A
57	B149004	250m	25	§J	10	2.0	90	5.0	80	1.0m§							2.0u	Δ	TO60	A
58	B149005	250m	25	§J	10	2.0	90	5.0	80	1.0m§							2.0u	Δ	TO60	A
59#	BLY68	250m#	25 Ø	§J	3.0		100	6.0	80	10u§	5.0Ø	1.0	30 #	70 Ø	100M§			PE	TO3	CØ
60#	BLY89	250m	44 Ø	§J	3.5		36	4.0	18	10mΔ	5.0Ø	500m	5.0		700M§	600m			MT72	GCØ
61#	BLY93	250m	44	§J	2.0		65	4.0	36	10mΔ	5.0Ø	500m	5.0		500M§	600m		PE	MT72c	R
62	MHT7901	250m$	25 Ø	§J	10		225	8.0	200	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO66	CØ
63	MHT7902	250m$	25 Ø	§J	10		250	8.0	225	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO66	CØ
64	MHT7903	250m$	25 Ø	§J	10		275	8.0	250	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO66	CØ
65	MHT7904	250m$	25 Ø	§J	10		325	8.0	300	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO66	CØ
66	MHT7905	250m$	25 Ø	§J	10		350	8.0	325	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO66	CØ
67	ST402	250m$	25 Ø	§A			60	5.0	60	20m	12Ø	2.0	15	40 Ø		4.0	250n	D	MS2	
68	ST403	250m$	25 Ø	§A			45	5.0	45	20m	12Ø	2.0	15	40 Ø		3.0	250n	D	MS2	
69	MHT6001	266m	40 Ø	§J	5.0		100	5.0	50	1.0uØ	5.0Ø	1.0	10	120 #	30M	1.0		PL	MT24	
70	MHT6011	266m	40 Ø	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	20	60 #	30M	500m		PL	MT24	
71	MHT6012	266m	40 Ø	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	20	60 #	30M§	500m		DPL	MT24	
72	MHT6013	266m	40 Ø	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	40	120 #	30M	500m		PL	MT24	
73	MHT6014	266m	40 Ø	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	40	120 #	30M	500m		PL	MT24	
74	MHT6015	266m	40 Ø	§J	5.0		80	8.0	40	1.0uØ	5.0Ø	1.0	100 #		30M	500m		PL	MT24	
75	MHT6016	266m	40 Ø	§J	5.0		100	8.0	80	1.0uØ	5.0Ø	1.0	100 #		30M	500m		PL	MT24	
76	MHT6031	266m	40 Ø	§J	5.0	500m	60	5.0	40	1.0uØ	5.0Ø	1.0	20	60	30M§	500m		PL	MT24	
77	SG7207	266m	40 Ø#	§J	5.0 †			6.0†	80 Ø*	10u§♦	5.0Ø	2.5	30	90 #	50M§△			DPE	TO59	A
78	SG7207A	266m	40 Ø#	§J	5.0 †			6.0†	80 Ø*	10u§♦	5.0Ø	2.5	70	300 #	60M§△			DPE	TO59	A
79	B5001	285m	29 Ø	§J	3.0	1.0			35	1.5mØ†	14Ø	500m	30	250		1.2		†	MD35a	B
80	B5002	285m	29 Ø	§J	3.0	1.0			60	1.5mØ†	14Ø	500m	30	250		1.2		†	MD35a	B
81	B5021	285m	29 Ø	§J	3.0	1.0			35	1.5mØ†	14Ø	500m	30	75		1.2		†	MD35a	B
82	B5022	285m	29 Ø	§J	3.0	1.0			60	1.5mØ†	14Ø	500m	30	75		1.2		†	MD35a	B
83	B5031	285m	29 Ø	§J	3.0	1.0			35	1.5mØ†	14Ø	500m	60	120		1.2		†	MD35a	B
84	B5032	285m	29 Ø	§J	3.0	1.0			60	1.5mØ†	14Ø	500m	60	120		1.2		†	MD35a	B
85	B5041	285m	29 Ø	§J	3.0	1.0			35	1.5mØ†	14Ø	500m	100	175		1.2		†	MD35a	B
86	B5042	285m	29 Ø	§J	3.0	1.0			60	1.5mØ†	14Ø	500m	100	175		1.2		†	MD35a	B
87	B5051	285m	29 Ø	§J	3.0	1.0			35	1.5mØ†	14Ø	500m	150	250		1.2		†	MD35a	B
88	B5052	285m	29 Ø	§J	3.0	1.0			60	1.5mØ†	14Ø	500m	150	250		1.2		†	MD35a	B
89#	BD271	285m	36 Ø	§J	4.0		55	7.0	45	100uØ	4.0Ø	500m	40		2.0M§△	500m		†	X120	BØ
90#	BD273	285m	36 Ø	§J	4.0		80	7.0	60	100uØ	4.0Ø	500m	40		2.0M§△	500m		†	X120	BØ
91#	BD275	285m	36 Ø	§J	4.0		100	7.0	80	100uØ	4.0Ø	500m	40		2.0M§△	500m		†	X120	BØ
92	MM1619	285m	50 Ø	§J	3.5		48	4.0	24	1.0mØ	1.0Ø	1.0	3.0						MT75	R
93	NPC13-1A†	285m	50 Ø	§J	5.0 †	2.0	80 †	6.0†	60	1.0u#♦	5.0Ø	1.0	40	90 #	40M§△		100nØØ	PL	TO3	CØ
94	NPC13-1B†	285m	50 Ø	§J	5.0 †	2.0	80 †	6.0†	60	1.0u#♦	5.0Ø	1.0	70	200 #	50M§△		100nØØ	PL	TO3	CØ
95	NPC13-2†	285m	50 Ø	§J	5.0 †	2.0	100 †	6.0†	80	1.0u#♦	5.0Ø	1.0	40	90 #	40M§△		100nØØ	PL	TO3	CØ
96	V409	285m	50 Ø	§J	6.0		65	4.0	40	200n△♦					300M§△	500m		PE	TO60	
97	MSA8508	286m	50 Ø	§J	5.0			4.0†	18 Ø	1.0m§♦	5.0Ø	2.0	5.0 #		400M§			DPE	MT72a	R
98	SDI345	288m	1.8	$A	4.0	2.0		5.0	4.0 Ø	1.0m#	4.0Ø	1.5	25	125		666m		DME†	Y220a	D
99	SDJ345	288m	1.8	$A	4.0	2.0		5.0	45 Ø	1.0m#	4.0Ø	2.0	20	100		550m		DME†	Y220a	D
100	SDK345	288m	1.8	$A	4.0	2.0		5.0	45 Ø	1.0m#	4.0Ø	2.5	20	100		480m		DME†	Y220a	D
101	SDL345	288m	1.8	$A	4.0	2.0		5.0	55 Ø	1.0m#	4.0Ø	2.5	20	100		480m		DME†	Y220a	D
102	SDM345	288m	1.8	$A	4.0	2.0		5.0	45 Ø	1.0m#	4.0Ø	200m	40	200		1.0		DME†	Y220a	D
103	SDN345	288m	1.8	$A	4.0	2.0		5.0	60 Ø	1.0m#	4.0Ø	300m	40	200		1.0		DME†	Y220a	D
104	SDP345	288m	1.8	$A	4.0	2.0		4.0	100 Ø	1.0m#	4.0Ø	500m	40	200		1.0		DME†	Y220a	D
105#	BD433A	300m	45 Ø	§J	4.0	1.0	20	5.0	20	100u	1.0Ø	500m	100	250	3.0M§△			E†	TO126	BØ
106#	BD433B	300m	45 Ø	§J	4.0	1.0	20	5.0	20	100u	1.0Ø	500m	160	400	3.0M§△			E†	TO126	BØ
107#	BD433C	300m	45 Ø	§J	4.0	1.0	20	5.0	20	100u	1.0Ø	500m	250	630	3.0M§△			E†	TO126	BØ
108#	BD435A	300m	45 Ø	§J	4.0	1.0	32	5.0	32	100u	1.0Ø	500m	100	250	3.0M§△			E†	TO126	BØ
109#	BD435B	300m	45 Ø	§J	4.0	1.0	32	5.0	32	100u	1.0Ø	500m	160	400	3.0M§△			E†	TO126	BØ
110#	BD435C	300m	45 Ø	§J	4.0	1.0	32	5.0	32	100u	1.0Ø	500m	250	630	3.0M§△			E†	TO126	BØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TA	MAX TP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG # Y200 s/a TO200 Ser.	LEAD CONFIG
1#	BLY25	300m$	30 Ø		§J	5.0		120	8.0	80	50u△	5.0Ø	2.0	100	300	70M§△	300m		DPE	TO59	
2#	BLY26	300m$	30 Ø		§J	5.0		100	8.0	60	50u△	5.0Ø	2.0	40 #		70M§△	300m		DPE	TO59	
3#	CP430	300m#	30 Ø		§J	5.0		100	8.0	60	10u§	5.0Ø	2.0	40	120 #	140M§			DPE	TO3	CØ
4#	CP431	300m#	30 Ø		§J	5.0		100	8.0	60	10u§	5.0Ø	2.0	100	300 #	150M§			DPE	TO3	CØ
5#	CP432	300m#	30 Ø		§J	5.0		120	8.0	80	10u§	5.0Ø	2.0	40	120 #	140M§			DPE	TO3	CØ
6#	CP433	300m#	30 Ø		§J	5.0		120	8.0	80	10u§	5.0Ø	2.0	100	300 #	150M§			DPE	TO3	CØ
7#	CP657	300m	30		$			120	6.0	100	10u§	5.0Ø	2.0	25	95 Ø	50M§		400nØ	PE	TO3	H
8	SDT1641	300m	52 Ø		§J	5.0	1.0	60	20	40	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
9	SDT1642	300m	52 Ø		§J	5.0	1.0	80	20	60	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
10	SDT1643	300m	52 Ø		§J	5.0	1.0	100	20	80	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
11	SDT1644	300m	52 Ø		§J	5.0	1.0	125	20	100	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
12	SDT1645	300m	52 Ø		§J	5.0	1.0	150	20	125	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
13	SDT1646	300m	52 Ø		§J	5.0	1.0	175	20	150	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
14	SDT1647	300m	52 Ø		§J	5.0	1.0	200	20	175	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
15	SDT1648	300m	52 Ø		§J	5.0	1.0	225	20	200	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO66	CØ
16	SDT1651	300m	52 Ø		§J	5.0	1.0	60	20	40	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
17	SDT1652	300m	52 Ø		§J	5.0	1.0	80	20	60	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
18	SDT1653	300m	52 Ø		§J	5.0	1.0	100	20	80	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
19	SDT1654	300m	52 Ø		§J	5.0	1.0	125	20	100	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
20	SDT1655	300m	52 Ø		§J	5.0	1.0	150	20	125	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
21	SDT1656	300m	52 Ø		§J	5.0	1.0	175	20	150	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
22	SDT1657	300m	52 Ø		§J	5.0	1.0	200	20	175	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
23	SDT1658	300m	52 Ø		§J	5.0	1.0	225	20	200	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO66	CØ
24	SDT1661	300m	52 Ø		§J	5.0	1.0	60	20	40	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
25	SDT1662	300m	52 Ø		§J	5.0	1.0	80	20	60	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
26	SDT1663	300m	52 Ø		§J	5.0	1.0	100	20	80	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
27	SDT1664	300m	52 Ø		§J	5.0	1.0	125	20	100	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
28	SDT1665	300m	52 Ø		§J	5.0	1.0	150	20	125	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
29	SDT1666	300m	52 Ø		§J	5.0	1.0	175	20	150	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
30	SDT1667	300m	52 Ø		§J	5.0	1.0	200	20	175	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
31	SDT1668	300m	52 Ø		§J	5.0	1.0	225	20	200	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO66	CØ
32	SDT7711	300m	55			15	3.0	60	20	40	10u	5.0	5.0	20	80	5.0M			PL	TO111	
33	SDT7712	300m	55			15	3.0	80	20	60	10u	5.0	5.0	20	80	5.0M			PL	TO111	
34	SDT7713	300m	55			15	3.0	100	20	80	10u	5.0	5.0	20	80	5.0M			PL	TO111	
35	SDT7714	300m	55			15	3.0	120	20	100	10u	5.0	5.0	20	80	5.0M			PL	TO111	
36	SDT7715	300m	55			15	3.0	140	20	125	10u	5.0	5.0	20	80	5.0M			PL	TO111	
37	SDT7716	300m	55			15	3.0	165	20	150	10u	5.0	5.0	20	80	5.0M			PL	TO111	
38	A522	303mØ	45		§J	5.0	1.0	60	6.0	35	50uØ	0.0	1.5	30	100	80M§			PE	TO3	
39	A523	303mØ	45		§J	5.0	1.0	90	6.0	60	50uØ	0.0	1.5	30	100	80M§			PE	TO3	
40#	3TE230	322m	48 Ø		§J	4.0	1.5	80	4.0	80	10uØ	5.0Ø	1.5	10 #	60				DPE	TO3	DØ
41	2N1657	333m			§J	2.0		60	3.0		5.0m	5.0Ø	1.0	15		1.0Mt			D	MS3	
42#	2SC736	333m	50 Ø		§J	5.0	1.0	135	5.0	60	500n	10	1.0	25	70 Ø		200m	1.5u	PE	TO3	
43#	2SC1259	333mØ	50 Ø		§J	6.0		36	4.0	18	2.0mØ	10Ø	3.0	15 #		125M§△			E	MT87	S
44#	2SD26	333m	50 Ø		§J	7.0		40	5.0	30	100uØ	4.0Ø	5.0	5.0	100				PE	TO3	CØ
45#	2SD26A	333m	50 Ø		§J	7.0		60	5.0	40	100uØ	4.0Ø	5.0	5.0	100				PE	TO3	CØ
46#	2SD26B	333m	50 Ø		§J	7.0		100	5.0	60	100uØ	4.0Ø	5.0	5.0	100				PE	TO3	CØ
47#	2SD26C	333m	50 Ø		§J	7.0		150	5.0	80	100uØ	4.0Ø	5.0	5.0	100				PE	TO3	CØ
48	3TX003	333m	53 Ø		#J	5.0		100	5.0	80 Ø	10m	5.0Ø	5.0	10		150k	400m		PE△	TO3	CØ
49	3TX004	333m	53 Ø		#J	5.0		60	3.0	50 Ø	10m	5.0Ø	5.0	10		150k	400m		PE△	TO3	CØ
50	1718-1805†	333m$	33 Ø		§J	10 #	2.0 #	180	7.0	180 Ø	200u#	2.0Ø	5.0	20		40M§△	120m	400nØØ	EM	TO111	G
51	B3547	333m	30 Ø$		§C	5.0		60	8.0	40	1.0uØ		1.0 Ø	20	60		500m		PE	TO59	
52	B3548	333m	30 Ø$		§C	5.0		80	8.0	60	1.0uØ		1.0 Ø	20	60		500m		PE	TO59	
53	B3549	333m	30 Ø$		§C	5.0		100	8.0	80	1.0uØ		1.0 Ø	20	60		500m		PE	TO59	
54	B3550	333m	30 Ø$		§C	5.0		60	8.0	40	1.0uØ		1.0 Ø	40	120		500m		PE	TO59	
55	B3551	333m	30 Ø$		§C	5.0		80	8.0	60	1.0uØ		1.0	40	120		500m		PE	TO59	
56	B3552	333m	30 Ø$		§C	5.0		100	8.0	80	1.0uØ		1.0	40	120		500m		PE	TO59	
57	B3553	333m	30 Ø$		§C	5.0		60	8.0	40	1.0uØ		1.0	100			500m		PE	TO59	
58	B3554	333m	30 Ø$		§C	5.0		80	8.0	60	1.0uØ		1.0	100			500m		PE	TO59	
59	B3555	333m	30 Ø$		§C	5.0		100	8.0	80	1.0uØ		1.0	100			500m		PE	TO59	
60	B3556	333m	20 Ø$		§C	5.0		90	8.0	60	100nØ		1.0	40	120	20M§△	250m		PE	TO59	
61	B3557	333m	20 Ø$		§C	5.0		120	8.0	80	100nØ		1.0	40	120	20M§△	250m		PE	TO59	
62	B3558	333m	20 Ø$		§C	5.0		150	8.0	100	100nØ		1.0	40	120	20M§△	250m		PE	TO59	
63	B3559	333m	30 Ø$		§C	5.0		60	7.0	40	100nØ		1.0	20	60	30M§△	250m		PE	TO59	
64	B3560	333m	30 Ø$		§C	5.0		80	8.0	60	100nØ		1.0	20	60	30M§△	250m		PE	TO59	
65	B3561	333m	30 Ø$		§C	5.0		100	8.0	80	100nØ		1.0	20	60	30M§△	250m		PE	TO59	
66	B3562	333m	30 Ø$		§C	5.0		60	7.0	40	100nØ		1.0	40	120	40M§△	250m		PE	TO59	
67	B3563	333m	30 Ø$		§C	5.0		80	8.0	60	100nØ		1.0 Ø	40	120	40M§△	250m		PE	TO59	
68	B3564	333m	30 Ø$		§C	5.0		100	8.0	80	100nØ		1.0 Ø	40	120	40M§△	250m		PE	TO59	
69	B3565	333m	30 Ø$		§C	5.0		60	7.0	40	100nØ		1.0 Ø	100	300	50M§△	250m		PE	TO59	
70	B3566	333m	30 Ø$		§C	5.0		80	8.0	60	100nØ		1.0 Ø	100	300	50M§△	250m		PE	TO59	
71	B3567	333m	30 Ø$		§C	5.0		100	8.0	80	100nØ		1.0 Ø	100	300	50M§△	250m		PE	TO59	
72	B3577	333m	40 Ø$		§C	5.0		100	5.0	50	1.0uØ		1.0	10		30M§	1.0		PE	TO59	
73	B3578	333m	40 Ø$		§C	5.0		80	8.0	40	1.0uØ		1.0	20	60	30M§	500m		PE	TO59	
74	B3579	333m	40 Ø$		§C	5.0		100	8.0	80	1.0uØ		1.0	20	60	30M§	500m		PE	TO59	
75	B3580	333m	40 Ø$		§C	5.0		80	8.0	40	1.0uØ		1.0	40	120	30M§	500m		PE	TO59	
76	B3581	333m	40 Ø$		§C	5.0		100	8.0	80	1.0uØ		1.0	40	120	30M§	500m		PE	TO59	
77	B3582	333m	40 Ø$		§C	5.0		80	8.0	40	1.0uØ		1.0	100		30M§	500m		PE	TO59	
78	B3583	333m	40 Ø$		§C	5.0		100	8.0	80	1.0uØ		1.0	100		30M§	500m		PE	TO59	
79	B3584	333m	40 Ø$		§C	5.0		60	5.0	40	1.0uØ		1.0	20	60	30M§	500m		PE	TO59	
80	B3631	333m	30 Ø$		§C	5.0		80	8.0	60	100uØ		1.0 Ø	20	60	30M§△	250m		PE	TO59	
81	B3632	333m	30 Ø$		§C	5.0		80	8.0	60	100uØ		1.0 Ø	40	120	50M§△	250m		PE	TO59	
82	B3633	333m	30 Ø$		§C	5.0		100	8.0	80	100uØ		1.0 Ø	20	60	30M§△	250m		PE	TO59	
83	B3634	333m	30 Ø$		§C	5.0		100	8.0	80	100uØ		1.0 Ø	40	120	50M§△	250m		PE	TO59	
84	B145000	333m	25		§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	45	90			2.0u	△	TO61	A
85	B145001	333m	25		§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	70	140			2.0u	△	TO61	A
86	B145002	333m	25		§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	120	240			2.0u	△	TO61	A
87	B145003	333m	25		§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	45	90			2.0u	△	TO61	A
88	B145004	333m	25		§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	70	140			2.0u	△	TO61	A
89	B145005	333m	25		§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	120	240			2.0u	△	TO61	A
90	B145006	333m	25		§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	45	90			2.0u	△	TO61	A
91	B145007	333m	25		§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	70	140			2.0u	△	TO61	A
92	B145008	333m	25		§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	120	240			2.0u	△	TO61	A
93	B145009	333m	25		§J	10	2.0	50	5.0	40	1.0m§							2.0u	△	TO61	A
94	B145010	333m	25		§J	10	2.0	50	5.0	40	1.0m§							2.0u	△	TO61	A
95	B145011	333m	25		§J	10	2.0	70	5.0	60	1.0m§							2.0u	△	TO61	A
96	B145012	333m	25		§J	10	2.0	70	5.0	60	1.0m§							2.0u	△	TO61	A
97	B145013	333m	25		§J	10	2.0	90	5.0	80	1.0m§							2.0u	△	TO61	A
98	B145014	333m	25		§J	10	2.0	90	5.0	80	1.0m§							2.0u	△	TO61	A
99#	BLY64	333m#	50 Ø		§J	5.0		80	6.0	60	10u§	5.0Ø	5.0	20 #	50 Ø	70M§			DPL	TO59	A
100#	BLY70	333m#	33 Ø		§J	5.0		100	6.0	80	10u§	5.0Ø	5.0	20 #	60 Ø	70M§△			DPE	TO3	CØ
101	BR100C§	333m	35 Ø		§J	10	2.0	60	3.0	40	1.0mØ	5.0Ø	3.0	40	200 #	300M§				TO59	A
102	BR100F§	333m	35 Ø		§J	10	2.0	60	3.0	40	1.0mØ	5.0Ø	3.0	40	200 #	300M§				MT50a	A
103	BR101C§	333m	35 Ø		§J	10	2.0	90	3.0	75	1.0mØ	5.0Ø	3.0	30	150 #	300M§				TO59	A
104	BR101F§	333m	35 Ø		§J	10	2.0	90	3.0	75	1.0mØ	5.0Ø	3.0	30	150 #	300M§				MT50a	A
105	BR200B§	333m	50 Ø		§J	20	8.0	60	3.0	40	1.0mØ	5.0Ø	10	40	150 #	200M§				MT50a	AØ
106	BR201B§	333m	50 Ø		§J	20	8.0	90	3.0	75	1.0mØ	5.0Ø	10	40	150 #	200M§				MT50a	AØ
107#	BUY14	333m	15 Ø*		§J	8.0		80	5.0	60	200u	1.7Ø	6.0	11	25 Ø	11M§			ME	MD17b	
108#	CP704	333m	30 #		§J	5.0		80	6.0	60	10u§♦	5.0Ø	2.0	20 #	60 Ø	40M△§	340m		DPE	TO3	
109	MHT6308	333m$	30 Ø		§J	5.0	500m	60	8.0	40	1.0u	2.0Ø	1.0	20	60 #	30M§	500m		PLD	MT42	
110	MHT6309	333m$	30 Ø		§J	5.0	500m	80	8.0	60	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m		PLD	MT42	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	MHT6310	333m§	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m		PLD	MT42	
2	MHT6311	333m§	30 Ø	§J	5.0	500m	60	8.0	40	1.0u	2.0Ø	1.0	40	120 #	30M§	500m		PLD	MT42	
3	MHT6312	333m§	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m		PLD	MT42	
4	MHT6313	333m§	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m		PLD	MT42	
5	MHT6314	333m§	30 Ø	§J	5.0	500m	60	8.0	40	1.0u	2.0Ø	1.0	100 #		30M§	500m		PLD	MT42	
6	MHT6315	333m§	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	2.0Ø	1.0	100 #		30M§	500m		PLD	MT42	
7	MHT6316	333m§	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	100 #		30M§	500m		PLD	MT42	
8	MHT6408	333m§	30 Ø	§J	5.0	500m	60	8.0	40	1.0u	2.0Ø	1.0	20	60 #	30M§	500m		PLD	MT53	GN
9	MHT6409	333m§	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m		PLD	MT53	GN
10	MHT6410	333m§	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	20	60 #	30M§	500m		PLD	MT53	GN
11	MHT6411	333m§	30 Ø	§J	5.0	500m	60	8.0	40	1.0u	2.0Ø	1.0	40	120 #	30M§	500m		PLD	MT53	GN
12	MHT6412	333m§	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m		PLD	MT53	GN
13	MHT6413	333m§	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	40	120 #	30M§	500m		PLD	MT53	GN
14	MHT6414	333m§	30 Ø	§J	5.0	500m	60	8.0	40	1.0u	2.0Ø	1.0	100 #		30M§	500m		PLD	MT53	GN
15	MHT6415	333m§	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	2.0Ø	1.0	100 #		30M§	500m		PLD	MT53	GN
16	MHT6416	333m§	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	2.0Ø	1.0	100 #		30M§	500m		PLD	MT53	GN
17	NS9002†	333m§	30 Ø	§J	5.0	500m	100	8.0	80	200nØ	5.0Ø	1.0	30		20M§△	250m	250u†Ø	PL	MT42	AØ
18	NS9210†	333m	50	§	5.0	.50	200	5.0	200	.01m	15Ø	2.0	20 #		100M§	1.5	.08u§	PE	TO61	
19	NS9211†	333m	50	§	5.0	.50	250	5.0	250	.01m	15Ø	2.0	20 #		100M§	1.5	.08u§	PE	TO61	
20	STC1001	333mØ					100		40		4.0Ø	1.5			1.0M†			D		
21	STT6309	333m	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	5.0Ø	1.0	20	60 #	30M§			PL	TO111	
22	STT6310	333m	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	5.0Ø	1.0	20	60 #	30M§			PL	TO111	
23	STT6312	333m	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	5.0Ø	1.0	40	120 #	30M§			PL	TO111	
24	STT6313	333m	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	5.0Ø	1.0	40	120 #	30M§			PL	TO111	
25	STT6315	333m	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	5.0Ø	1.0	100 #		30M§			PL	TO111	
26	STT6316	333m	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	5.0Ø	1.0	100 #		30M§			PL	TO111	
27	STT6409	333m	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	5.0Ø	1.0	20	60 #	30M§			PL	TO111	
28	STT6410	333m	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	5.0Ø	1.0	20	60 #	30M§			PL	TO111	
29	STT6412	333m	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	5.0Ø	1.0	40	120 #	30M§			PL	TO111	
30	STT6413	333m	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	5.0Ø	1.0	40	120 #	30M§			PL	TO111	
31	STT6415	333m	30 Ø	§J	5.0	500m	80	8.0	60	1.0uØ	5.0Ø	1.0	100 #		30M§			PL	TO111	
32	STT6416	333m	30 Ø	§J	5.0	500m	100	8.0	80	1.0uØ	5.0Ø	1.0	100 #		30M§			PL	TO111	
33	FT7207A	361m§	30 §	§J	5.0		120	8.0	80	10u§Ø	5.0Ø	2.0 Ø	40	120 #	70M§△	300m		DPE	MT43	
34	FT7207B	361m§	30 §	§J	5.0		100	8.0	60	10u§Ø	5.0Ø	2.0 Ø	40	120 #	70M§△	300m		DPE	MT43	
35	2N1210/I	400m		§	5.0		60	8.0	60	20m	12Ø	2.0	15	75	2.5M†	1.0	.90u		MS3	
36	2N1211/I	400m		§	5.0		80	8.0	70	10m	12Ø	2.0	15	75	2.5M†	1.0	11u		MS3	
37	2N1616/I	400m		§	5.0		60	8.0		10m	12Ø	2.0	15	75	2.5M†	1.0	.90u		MT10	
38	2N1617/I	400m		§	5.0		80	8.0	70	10m	12Ø	2.0	15	75	2.5M†	1.0	.90u		MT10	
39	2N1618/I	400m		§	5.0		100	8.0	80	10m	12Ø	2.0	15	75	2.5M†	1.0	900n		MT10	
40	2N1619	400mØ									1.0	2.0	35 Ø		15k		1.2u	D		
41	2N1620/I	400m		§	5.0		100	8.0	80	10m	12Ø	2.0	15	75	2.5M†	1.0	.90u		MS3	
42#	2SC41	400m		§J	5.0	1.5	150	6.0		60m	10Ø	1.0	12	92	20M†	2.0		ME	TO3	
43#	2SC42	400m		§J	5.0	1.5	150	6.0		60m	10Ø	1.0	4.0	185	20M†	2.0		ME	TO3	
44#	2SC42A	400m	50 Ø	§J	5.0	1.5	200	6.0	75	30uØ	10Ø	1.0	12	128	20M§	400m	500n	ME	TO3	
45#	2SC43	400m		§J	5.0	1.5	150	6.0		60m	10Ø	1.0	4.0	185	20M†	2.0		ME	TO3	
46#	2SC44	400m		§J	5.0	1.5	150	6.0		60mØ	10Ø	1.0	4.0	185	20M†	2.0		ME	TO3	
47#	2SC270	400m	50 Ø	§J	5.0	1.5	270	6.0	75	1.0mØ	3.0Ø	2.0	24	92	20M§	300m	500n	ME	TO3	
48#	2SC518	400m	50 Ø	§J	5.0	5.0 Ø	140	5.0	140	10mØ	5.0Ø	5.0	20	40 Ø	20M†	300m		DM	TO3	CØ
49#	2SC518A	400m	50 Ø	§J	5.0		180	5.0	180 Ø	1.0mØ	5.0Ø	5.0	40 Ø		40M			ME	TO3	
50#	2SC768	400m	50 Ø	§J	10		60	5.0	40	1.0mØ	4.0Ø	1.0	8.0	70				ME	TO3	
51#	2SC769	400m	50 Ø§	§J	10		120	5.0	80	1.0mØ	4.0Ø	2.0	10	110				ME	TO3	CØ
52#	2SC770	400m	50 Ø	§J	10		200	5.0	100	1.0mØ	4.0Ø	2.0	10	110				ME	TO3	CØ
53#	2SC771	400m	50 Ø	§J	10		250	5.0	120	1.0mØ	4.0Ø	1.0	8.0	70				ME	TO3	
54#	2SC1100	400mØ	50 Ø	§J	3.0		1.1k	7.0	400	1.0mØ	15Ø	3.0	10					ME	TO3	CØ
55#	2SD45	400m	50 Ø	§J	5.0	1.5	150	6.0	100	15mØ	10Ø	1.0	12	128	20M§	600m		ME	TO3	
56#	2SD46	400m	50 Ø	§J	5.0	1.5	150	6.0	75	15mØ	10Ø	1.0	12	184	20M§	600m		ME	TO3	
57#	2SD60	400m	50 Ø	§J	6.0		150	10	75	30uØ	4.0Ø	1.0	35	180	3.0M†			D	TO3	CØ
58	3TE130	400m	60	§J	5.0		90	4.0	80	10uØ	5.0Ø	5.0	20	80	180M§	200m		PE	TO3	
59	3TE220	400m	60 Ø	§J	5.0	2.0	80	4.0	80	10uØ	5.0Ø	4.5	10	60 #				DPE	TO3	
60	3TX002	400m	70 Ø	#J	5.0		100	5.0	80 Ø	10m	5.0Ø	5.0	30		150k	200m		PE△	TO3	CØ
61	4JD20A7	400m	2.0	§J	2.0	1.0	50	8.0	30	10u#	5.0Ø	1.0	20	60	10M§△	1.2			MT47	
62	4JD20A8	400m	2.0	§J	2.0	1.0	50	8.0	30	10u#	5.0Ø	1.0	40	120	10M§△	1.2			MT47	
63	20A10	400m	30 Ø	§J	2.0	1.0	125	8.0	80	1.0m	5.0Ø	1.0	90	180	10M§	1.0		DM	TO59	
64	20A11	400m	30 Ø	§J	2.0	1.0	100	8.0	60	1.0m	5.0Ø	1.0	90	180	10M§	1.0		DM	TO59	
65	20A12	400m	30 Ø	§J	5.0	1.0	175	15	120	5.0m	5.0Ø	5.0	30	90	10M§	1.0		DM	TO59	
66	A705	400m♦	10 Ø	♦J	2.5	100m	750	5.0	750 §						7.5M§	2.0	750n#	△	TO3	CØ
67	B146000	400m	25	§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	45	90			2.0u	△	TO61	AØ
68	B146001	400m	25	§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	70	140			2.0u	△	TO61	AØ
69	B146002	400m	25	§J	10	2.0	50	5.0	40	1.0m§	10Ø	3.0	120	240			2.0u	△	TO61	AØ
70	B146003	400m	25	§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	45	90			2.0u	△	TO61	AØ
71	B146004	400m	25	§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	70	140			2.0u	△	TO61	AØ
72	B146005	400m	25	§J	10	2.0	70	5.0	60	1.0m§	10Ø	3.0	120	240			2.0u	△	TO61	AØ
73	B146006	400m	25	§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	45	90			2.0u	△	TO61	AØ
74	B146007	400m	25	§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	70	140			2.0u	△	TO61	AØ
75	B146008	400m	25	§J	10	2.0	90	5.0	80	1.0m§	10Ø	3.0	120	240			2.0u	△	TO61	AØ
76	B146009	400m	25	§J	10	2.0	50	5.0	40	1.0m§							2.0u	△	TO61	AØ
77	B146010	400m	25	§J	10	2.0	50	5.0	40	1.0m§							2.0u	△	TO61	AØ
78	B146011	400m	25	§J	10	2.0	70	5.0	60	1.0m§							2.0u	△	TO61	AØ
79	B146012	400m	25	§J	10	2.0	70	5.0	60	1.0m§							2.0u	△	TO61	AØ
80	B146013	400m	25	§J	10	2.0	90	5.0	80	1.0m§							2.0u	△	TO61	AØ
81	B146014	400m	25	§J	10	2.0	90	5.0	80	1.0m§							2.0u	△	TO61	AØ
82	BR100E§	400m	35 Ø	§J	10	2.0	60	3.0	40	1.0mØ	5.0Ø	3.0	40	200 #	300M§				MT50a	AØ
83	BR101E§	400m	35 Ø	§J	10	2.0	90	3.0	75	1.0mØ	5.0Ø	3.0	30	150 #	300M§				MT50a	AØ
84	BR200A§	400m	50 Ø	§J	20	8.0	60	3.0	40	1.0mØ	5.0Ø	10	40	150 #	200M§	200m			MT50a	AØ
85	BR201A§	400m	50 Ø	§J	20	8.0	90	3.0	75	1.0mØ	5.0Ø	10	40	150 #	200M§	200m			MT50a	AØ
86	BU130	400m	15 Ø	§J	10	2.5 #		6.0	150	1.0m§					15M§		500n#	D△	TO3	CØ
87#	DT4110	400m	30 Ø	§S	1.5	300m	45	8.0	30	1.0m	6.0Ø	1.5	15	45	500k§△	1.5		D	TO3	
88#	DT4111	400m	30 Ø	§S	1.5	300m	80	8.0	60	1.0m	6.0Ø	1.5	15	45	500k§△	1.5		D	TO3	
89#	DT4112	400m	30 Ø	§S	1.5	300m	120	8.0	100	1.0m	6.0Ø	1.5	15	45	500k§△	1.5		D	TO3	
90#	DT4120	400m	30 Ø	§S	1.5	300m	45	8.0	30	1.0m	6.0Ø	1.5	30	90	500k§△	1.5		D	TO3	
91#	DT4121	400m	30 Ø	§S	1.5	300m	80	8.0	60	1.0m	6.0Ø	1.5	30	90	500k§△	1.5		D	TO3	
92#	DT4303	400m	30		5.0	.50	200	5.0	200 §	10m	5.0Ø	5.0	10	50		.60		D	TO3	
93#	DT4304	400m	30		5.0	.50	300	5.0	300 §	10m	5.0Ø	5.0	10	50		.60		D	TO3	
94	RE3800	400m	70 Ø	J	6.0		35	4.0	18		5.0	500m	10		250M				MT72	
95	SDM2301	400m	70		10	500m	60	10	40	1.0u	5.0	5.0	2.0k		30M			PL	X21	
96	SDM2302	400m	70		10	500m	80	10	60	1.0u	5.0	5.0	2.0k		30M			PL	X21	
97	SDM2303	400m	70		10	500m	100	10	80	1.0u	5.0	5.0	2.0k		30M			PL	X21	
98	SDT1150	400m	50 Ø§	§J	10	3.0		8.0	200 Ø	5.0m△	5.0Ø	1.0	15 #		5.0M§			PL	TO66	
99	SDT1151	400m	50 Ø§	§J	10	3.0		8.0	325 Ø	5.0m△	5.0Ø	1.0	15 #		5.0M§			PL	TO66	
100	SDT1152	400m	50 Ø§	§J	10	3.0		8.0	400 Ø	5.0m△	5.0Ø	1.0	15 #		5.0M§			PL	TO66	
101	SDT1153	400m	50 Ø§	§J	10	3.0		8.0	400 Ø	5.0m△	5.0Ø	1.0	15 #		5.0M§			PL	TO66	
102	SDT1154	400m	50 Ø§	§J	10	3.0		8.0	400 Ø	5.0m△	5.0Ø	1.0	15 #		5.0M§			PL	TO66	
103	SDT1155	400m	50 Ø§	§J	10	3.0		8.0	200 Ø	1.0m△	5.0Ø	2.0	10 #	50	5.0M§			PL	TO66	
104	SDT1156	400m	50 Ø§	§J	10	3.0		8.0	325 Ø	1.0m△	5.0Ø	2.0	10 #	50	5.0M§			PL	TO66	
105	SDT1157	400m§	50 Ø	§J	10	3.0		8.0	400 Ø	1.0m△	5.0Ø	2.0	10	50 #	5.0M§			D	TO66	CØ
106	SDT1158	400m§	50 Ø	§J	10	3.0		8.0	400 Ø	1.0m△	5.0Ø	2.0	10	50 #	5.0M§			D	TO66	CØ
107	SDT1159	400m§	50 Ø	§J	10	3.0		8.0	400 Ø	1.0m△	5.0Ø	2.0	10	50 #	5.0M§			D	TO66	CØ
108	SDT1160	400m§	50 Ø	§J	10	3.0		8.0	200 Ø	1.0m△	5.0Ø	3.0	10 #		5.0M§			D	TO66	CØ
109	SDT1161	400m§	50 Ø	§J	10	3.0		8.0	325 Ø	1.0m△	5.0Ø	3.0	10 #		5.0M§			D	TO66	CØ
110	SDT1162	400m§	50 Ø	§J	10	3.0		8.0	400 Ø	1.0m△	5.0Ø	3.0	10 #		5.0M§			D	TO66	CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1	SDT1163	400m§	50 Ø	§J	10	3.0		8.0	400 ☑	1.0mΔ	5.0Ø	3.0	10 #		5.0M§			D	TO66	CØ
2	SDT1164	400m§	50 Ø	§J	10	3.0		8.0	400 ☑	1.0mΔ	5.0Ø	3.0	10 #		5.0M§			D	TO66	CØ
3	ST7530	400mØ		§	3.0		40	5.0	40	10m	10	50	20	80		8.0		D	MT11	
4	STC1035	400m		§J	7.5		30		30		4.0Ø	2.0	10 †			.75			TO3	
5	STC1035A	400m		§J	7.5		60		60		4.0Ø	2.0	10 †			.75			TO3	
6	STC1036	400m		§J	7.5		30		30		4.0Ø	5.0	10 †			.50			TO3	
7	STC1036A	400m		§J	7.5		60		60		4.0Ø	5.0	10 †			.50			TO3	
8	STT2800	400m§	40 Ø	§J	7.5	1.0	150	12	150	1.0u§	15Ø	2.0	30	90 #	25M§			DPLΔ	TO59	A
9	STT2801	400m§	40 Ø	§J	7.5	1.0	140	12	120	1.0u§	15Ø	2.0	30	90 #	25M§			DPLΔ	TO59	A
10	STT2802	400m§	40 Ø	§J	7.5	1.0	140	12	120	1.0u§	15Ø	2.0	50	150 #	25M§			DPLΔ	TO59	A
11	STT2803	400m§	40 Ø	§J	7.5	1.0	120	12	100	1.0u§	15Ø	2.0	30	90 #	25M§			DPLΔ	TO59	A
12	STT2804	400m§	40 Ø	§J	7.5	1.0	100	12	80	1.0u§	15Ø	2.0	30	90 #	25M§			DPLΔ	TO59	A
13	STT2805	400m§	40 Ø	§J	7.5	1.0	75	10	60	1.0u§	15Ø	2.0	30	90 #	25M§			DPLΔ	TO59	A
14	STT2806	400m§	40 Ø	§J	7.5	1.0	40	10	30	500u§	15Ø	2.0	25 #		25M§			DPLΔ	TO59	A
15#	XC723	400mØ		§C	6.0	3.0	60	10	40	.02mØ	4.0Ø	1.5	10	50	1.0Mt	2.0	1.0u	D	TO3	
16	JAN2N1511	429m	75 Ø	§J	6.0	3.0	60	10	40	25uØ	4.0Ø	1.5	15	45	500kt△	2.0		△	TO67	Ø
17	JAN2N1512	429m	75 Ø	§J	6.0	3.0	100	10	55	25uØ	4.0Ø	1.5	15	45	500kt△	2.0		△	TO67	Ø
18	JAN2N1513	429m	75 Ø	§J	6.0	3.0	60	10	40	25uØ	4.0Ø	1.5	25	75	500kt△	670m		△	TO67	Ø
19	JAN2N1514	429m	75 Ø	§J	6.0	3.0	100	10	55	25uØ	4.0Ø	1.5	25	75	500kt△	670m		△	TO67	Ø
20	AMF104	429m	75 Ø	§J	4.0		30	.50	30 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
21	AMF105	429m	75 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
22	AMF106	429m	75 Ø	§J	4.0		100	.50	100 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
23	AMF115	429m	75 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	5.0		MEΔ	TO3	
24	AMF116	429m	75 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	1.5		MEΔ	TO3	
25	AMF117	429m	75 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
26	AMF117A	429m	75 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
27	AMF118	429m	75 Ø	#J	4.0		45	.50	45 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
28	AMF118A	429m	75 Ø	#J	4.0		45	.50	45		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
29	AMF119	429m	75 Ø	#J	4.0		35	.50	30		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
30	AMF119A	429m	75 Ø	#J	4.0		35	.50	35 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
31	AMF120	429m	75 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
32	AMF120A	429m	75 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
33	F104	429m	75 Ø	§J	4.0		30	.50	30 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
34	F105	429m	75 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
35	F106	429m	75 Ø	§J	4.0		100	.50	100 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
36	F115	429m	75 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	5.0		MEΔ	TO3	
37	F116	429m	75 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	1.5		MEΔ	TO3	
38	F117	429m	75 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
39	F117A	429m	75 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
40	F118	429m	75 Ø	#J	4.0		45	.50	45 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
41	F118A	429m	75 Ø	#J	4.0		45	.50	45 Ø		15Ø	1.0	10	50	10k	800m		MEΔ	TO3	
42	F119	429m	75 Ø	#J	4.0		35	.50	35 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
43	F119A	429m	75 Ø	#J	4.0		35	.50	35 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
44	F120	429m	75 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	TO3	
45	F120A	429m	75 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	TO3	
46#	ZT1511	429m	75 Ø♦	§C	6.0	3.0	60	10	60 #	25uØ	4.0Ø	1.5	15	45		2.0	1.0u	D	TO36	Ø
47#	ZT1512	429m	75 Ø♦	§C	6.0	3.0	100	10	100 #	25uØ	4.0Ø	1.5	15	45		2.0	1.0u	D	TO36	Ø
48#	ZT1513	429m	75 Ø♦	§C	6.0	3.0	60	10	60 #	25uØ	4.0Ø	1.5	25	75		670m	1.0u	D	TO36	Ø
49#	ZT1514	429m	75 Ø♦	§C	6.0	3.0	100	10	100 #	25uØ	4.0Ø	1.5	25	75		670m	1.0u	D	TO36	Ø
50#	ZT1703	429m	75 Ø♦	§C	5.0	2.5	60	6.0	40	200uØ	4.0Ø	800m	15	60	1.0Mt	4.0	1.2uØ	D	TO36	Ø
51	STC1080	434m§	75 Ø	§J	3.0			10	40	10m	15Ø	1.0	12	36		750m		DΔ	TO3	CØ
52	STC1081	434m§	75 Ø	§J	3.0			10	60	10m	15Ø	1.0	12	36		750m		DΔ	TO3	CØ
53	STC1082	434m§	75 Ø	§J	3.0			10	80	10m	15Ø	1.0	12	36		750m		DΔ	TO3	CØ
54	STC1083	434m§	75 Ø	§J	5.0			10	40	10m	15Ø	2.0	10	30		500m		DΔ	TO3	CØ
55	STC1084	434m§	75 Ø	§J	5.0			10	60	10m	15Ø	2.0	10	30		500m		DΔ	TO3	CØ
56	STC1085	434m§	75 Ø	§J	5.0			10	80	10m	15Ø	2.0	10	30		500m		DΔ	TO3	CØ
57	2N1250/I	450m		§	5.0		60	10	60	10m	12Ø	2.0	15	60	2.5Mt	25	900n		MS3	
58	STC1550	450m§	85 Ø	§J	3.0			10	40	10m	15Ø	1.0	12	36		750m		DΔ	MT10	
59	STC1551	450m§	85 Ø	§J	3.0			10	60	10m	15Ø	1.0	12	36		750m		DΔ	MT10	
60	STC1552	450m§	85 Ø	§J	3.0			10	80	10m	15Ø	1.0	12	36		750m		DΔ	MT10	
61	STC1553	450m§	85 Ø	§J	5.0			10	40	10m	15Ø	2.0	10	30		500m		DΔ	MT10	
62	STC1554	450m§	85 Ø	§J	5.0			10	60	10m	15Ø	2.0	10	30		500m		DΔ	MT10	
63	STC1555	450m§	85 Ø	§J	5.0			10	80	10m	15Ø	2.0	10	30		500m		DΔ	MT10	
64	2N2908	454m	45 Ø	§C	5.0	2.0	80	10	80 §		15Ø	1.0	12	20	1.0M	10			TO53	
65	2N1208/I	455m		§	5.0		60	10	60		12Ø	2.0	15	60	2.5Mt	2.5	.90u		MT10	
66	2N1209/I	455m		§	5.0		45	5.0			12Ø	2.0	20	80	2.5Mt	2.5	.90u		MT10	
67	2N1212/I	455m		§	5.0		60	10	60	10m	15Ø	1.0	12	36	2.5Mt	5.0	11u		MT10	
68	2N2032/I	455m		§	3.0		45	5.0		2.0m	12Ø	2.0	20		2.5Mt	2.5	.90u		MS3	
69	STC1500	455m		§	2.5		60	6.0	40		4.0Ø	.80	15	60	2.5Mt	4.0	.90u		MT10	
70#	2S013	476m	60	§J	2.0	.50	60	10	60		10	1.0	10	50	5M	10		D	MS3	
71	AMF101	476m	85 Ø	§J	4.0		30	.50	30 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
72	AMF102	476m	85 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
73	AMF103	476m	85 Ø	§J	4.0		100	.50	100 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
74	AMF107	476m	85 Ø	§J	4.0		30	.50	30 Ø		15Ø	1.0	10	50	1.5Mt	5.0		MEΔ	MT10	
75	AMF108	476m	85 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.5Mt	5.0		MEΔ	MT10	
76	AMF109	476m	85 Ø	§J	4.0		100	.50	100 Ø		15Ø	1.0	10	50	1.5Mt	5.0		MEΔ	MT10	
77	AMF110	476m	85 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.5Mt	1.5		MEΔ	MT10	
78	AMF111	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.5Mt	5.0		MEΔ	MT10	
79	AMF112	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	5.0		MEΔ	MS3	
80	AMF113	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	1.5		MEΔ	MS3	
81	AMF114	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.5Mt	1.5		MEΔ	MT10	
82	AMF121	476m	85 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
83	AMF121A	476m	85 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
84	AMF122	476m	85 Ø	#J	4.0		45	.50	45 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
85	AMF122A	476m	85 Ø	#J	4.0		45	.50	45 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
86	AMF123	476m	85 Ø	#J	4.0		35	.50	35 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
87	AMF123A	476m	85 Ø	#J	4.0		35	.50	35 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
88	AMF124	476m	85 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
89	AMF124A	476m	85 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
90	F101	476m	85 Ø	§J	4.0		30	.50	30 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
91	F102	476m	85 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
92	F103	476m	85 Ø	§J	4.0		100	.50	100 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
93	F107	476m	85 Ø	§J	4.0		30	.50	30 Ø		15Ø	1.0	10	50	1.5Mt	5.0		MEΔ	MT10	
94	F108	476m	85 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.5Mt	5.0		MEΔ	MT10	
95	F109	476m	85 Ø	§J	4.0		100	.50	100 Ø		15Ø	1.0	10	50	1.5Mt	5.0		MEΔ	MT10	
96	F110	476m	85 Ø	§J	4.0		60	.50	60 Ø		15Ø	1.0	10	50	1.5Mt	1.5		MEΔ	MT10	
97	F111	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.5Mt	5.0		MEΔ	MT10	
98	F112	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	5.0		MEΔ	MS3	
99	F113	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.0Mt	1.5		MEΔ	MS3	
100	F114	476m	85 Ø	§J	7.5		60	.50	60 Ø		15Ø	2.0	10	50	1.5Mt	1.5		MEΔ	MT10	
101	F121	476m	85 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
102	F121A	476m	85 Ø	#J	4.0		55	.50	55 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
103	F122	476m	85 Ø	#J	4.0		45	.50	45 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
104	F122A	476m	85 Ø	#J	4.0		45	.50	45 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
105	F123	476m	85 Ø	#J	4.0		35	.50	35 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
106	F123A	476m	85 Ø	#J	4.0		35	.50	35 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
107	F124	476m	85 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	5.0		MEΔ	MS3	
108	F124A	476m	85 Ø	#J	4.0		25	.50	25 Ø		15Ø	1.0	10	50	1.0Mt	800m		MEΔ	MS3	
109	ST440	476m	60 Ø	§S	2.0		60	5.0	60	20m	15Ø	1.0	10	25 #	4.0M		1.8u		MS2	
110	ST450	476m	60 Ø	§	2.0		60	5.0	60	20m	15Ø	1.0	10 #	25 Ø	4.0M		1.8u	DΔ	MT10	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR
& (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	ST7120	476mØ		§	3.0		45	8.0	35	10m	12	2.0	20	80		5.0		D	MS3	
2	ST7130	476mØ		§	3.0		45	8.0	35	10m	12	2.0	20	80		5.0		D	MT10	
3	STC1101	476m		§	6.0	3.0	60	10	40		4.0Ø	1.5	10	50	1.0M†	2.0		D		
4	STC1102	476m		§	6.0	3.0	100	10	55		4.0Ø	1.5	10	50	1.0M†	2.0		D		
5	STC1103	476m		§	6.0	3.0	60	10	40		4.0Ø	1.5	25	75	1.0M†	.67		D		
6	STC1104	476m		§	6.0	3.0	100	10	55		4.0Ø	1.5	25	75	1.0M†	.67		D		
7	STC1105	476m		§J	7.5		30		30		4.0Ø	2.0	10 †			.75			MS3	
8	STC1105A	476m		§J	7.5		60		60		4.0Ø	2.0	10 †			.75			MS3	
9	STC1106	476m		§J	7.5		30		30		4.0Ø	5.0	10 †			.50			MS3	
10	STC1106A	476m		§J	7.5		60		60		4.0Ø	5.0	10 †			.50			MS3	
11	TT500	476mØ		§J	2.0		60	10	60	10m	15Ø	1.0 Ø	45	135	25M§Δ			D	MT10	
12	TT501	476mØ		§J	2.0		80	10	80	10m	15Ø	1.0 Ø	45	135	25M§Δ			D	MT10	
13	TT502	476mØ		§J	2.0		100	10	100	10m	15Ø	1.0 Ø	45	135	25M§Δ			D	MT10	
14#	2SC492	478m	50 Ø	$J	5.0		110	5.0	110	10mØ	5.0Ø	1.0 Δ	60 †		20M§			ME	TO3	
15	2N389/I	480m		§	3.0		60	10	60		15Ø	1.0	12	60	2.5M†	5.0	900n		MS3	
16	2N389A/I	480m		§	3.0		60	10	60		4.0Ø	1.0	12	60	2.5M†	750m	900n		MS3	
17	2N424/I	480m		§	3.0		80	10	80		15Ø	1.0	12	60	2.5M†	1.0	900n		MS3	
18	2N424A/I	480m		§	3.0		80	10	80		4.0Ø	1.0	12	60	2.5M†	750m	900n		MS3	
19	2N1616A/I	480m		§	7.5		60	10	60	10m	4.0Ø	5.0	10		2.5M†	500m	900n		MT10	
20	2N1617A/I	480m		§	7.5		80	10	70	10m	4.0Ø	5.0	10		2.5M†	500m	900n		MT10	
21	2N1618A/I	480m		§	7.5		100	10	80	10m	4.0Ø	5.0	10		2.5M†	500m	900n		MT10	
22	2N1722/I	480m		§	7.5		120	10	80	10m	15Ø	2.0	20	90	2.5M†	500m	900n		MS3	
23	2N1724/I	480m		§	7.5		120	10	80		15Ø	2.0	20	90	2.5M†	500m	900n		MT10	
24#	2SC101	480mØ		$J	2.0			5.5		3.0mØ	10	500m	16 †					ME	MD10	
25#	2SC793BL	480m	60 Ø	$J	7.0	7.0 Ø	100	5.0	80	1.0mØ	5.0Ø	1.0	85	200	9.0M§	460m		DM	TO3	CØ
26#	2SC793R	480m	60 Ø	$J	7.0	7.0 Ø	100	5.0	80	1.0mØ	5.0Ø	1.0	30	70	9.0M§	460m		DM	TO3	CØ
27#	2SC793Y	480m	60 Ø	$J	7.0	7.0 Ø	100	5.0	80	1.0mØ	5.0Ø	1.0	50	120	9.0M§	460m		DM	TO3	CØ
28	STC1024	480m		§	5.0		80	9.0	60		4.0Ø	1.5	25	75	2.5M†	1.0	900n			
29	2N1660†	485mØ	85 Ø	§J	2.0		60	10	60 §		15Ø	1.0 Ø	45	135	25M§Δ	4.0	110nØ	PDΔ	MS3	
30	2N1661†	485mØ	85 Ø	§J	2.0		80	10	80 §		15Ø	1.0 Ø	45	135	25M§Δ	4.0	110nØ	PDΔ	MS3	
31	2N1662†	485mØ	85 Ø	§J	2.0		100	10	100 §		15Ø	1.0 Ø	45	135	25M§Δ	4.0	110nØ	PDΔ	MS3	
32	2N1722A/I	485m	85 Ø	§C	7.5		180		120		5.0Ø	5.0	20			300m			TO61	
33	2N1724A/I	485m	85 Ø	§C	7.5		180		120		5.0Ø	5.0	20			300m			TO61	
34	2N1894	485mØ	85 Ø	§J	2.0		60	10	60		15Ø	1.0 Ø	12	60	25M§Δ	5.0		DΔ	MT16	
35	2N1895	485mØ	85 Ø	§J	2.0		80	10	80		15Ø	1.0 Ø	12	60	25M§Δ	10		DΔ	MT16	
36	2N1896	485mØ	85 Ø	§J	2.0		60	10	60 §		15Ø	1.0 Ø	45	135	25M§Δ	4.0	110nØ	DΔ	MT16	
37	2N1897	485mØ	85 Ø	§J	2.0		80	10	80 §		15Ø	1.0 Ø	45	135	25M§Δ	4.0	110nØ	DΔ	MT16	
38	2N1898	485mØ	85 Ø	§J	2.0		100	10	100 §		15Ø	1.0 Ø	45	135	25M§Δ	4.0	110nØ	DΔ	MT16	
39	STC7114	485m	85 Ø	§C	7.5		80		60		4.0Ø	2.0	50	150		380m			TO53	
40	STC7115	485m	85 Ø	§C	7.5		100		80		4.0Ø	2.0	50	150		380m			TO53	
41	STC7116	485m	85 Ø	§C	7.5		120		100		4.0Ø	2.0	50	150		380m			TO53	
42	STC7117	485m	85 Ø	§C	7.5		140		120		4.0Ø	2.0	50	150		380m			TO53	
43	STC7518	485m	85 Ø	§C	7.5		80		60		4.0Ø	2.0	50	150		380m			TO61	
44	STC7519	485m	85 Ø	§C	7.5		100		80		4.0Ø	2.0	50	150		380m			TO61	
45	STC7520	485m	85 Ø	§C	7.5		120		100		4.0Ø	2.0	50	150		380m			TO61	
46	STC7521	485m	85 Ø	§C	7.5		140		120		4.0Ø	2.0	50	150		380m			TO61	
47#	2S720	500mØ		$A	1.0	.50		5.0	120	10m	10Ø	.50	10	30 Ø	3M†			D	MS3	
48#	2SC21	500mØ		$J	2.0		60	5.5	60	1.0mØ	10	1.0	25 Ø				.12u	MEΔ	TO3	
49#	2SC241	500mØ	75 Ø	§J	5.0		60	5.0	40	10m	10Ø	1.0	15	35 Ø	35M†	500m		ME	TO3	
50#	2SC242	500mØ	75 Ø	§J	5.0		100	5.0	65	10m	10Ø	1.0	15	35 Ø	35M†	500m		ME	TO3	
51#	2SC243	500mØ	75 Ø	§J	5.0		140	5.0	80	10m	10Ø	1.0	15	35 Ø	35M†	500m		ME	TO3	
52#	2SC244	500mØ	75 Ø	§J	6.5		60	5.0	60 Ø	50m	10Ø	1.0	15	35 Ø	35M†	500m		ME	TO3	
53#	2SC245	500mØ	75 Ø	§J	6.5		120	5.0	120 Ø	20m	10Ø	1.0	15	35 Ø	35M†	500m		ME	TO3	
54#	2SC246	500mØ	75 Ø	§J	6.5		180	5.0	180 Ø	20m	10Ø	1.0	15	35 Ø	35M†	500m		ME	TO3	
55#	2SD12	500m	60 Ø	$J	2.5		75	4.0	40	10m	4.0Ø	1.0	25	75	20MΔ	800m		ME	TO3	Ø
56#	180T2	500m	85	§J	6.0	3.0	60	10	60		4.0Ø	2.0	15 #	180 *	10M§			ME	TO3	
57#	181T2	500m	85	§J	6.0	3.0	100	10	90		4.0Ø	2.0	15 #	180 *	10M§			ME	TO3	
58#	182T2	500m	85	§J	6.0	3.0	200	10	140		4.0Ø	2.0	15 #	180 *	10M§			ME	TO3	
59#	183T2	500m	85	§J	6.0	3.0	300	10	180		4.0Ø	2.0	15 #	180 *	10M§			ME	TO3	
60#	184T2	500m	85	§J	6.0	3.0	400	10	200		4.0Ø	2.0	15 #	180 *	10M§			ME	TO3	
61#	185T2	500m	85	§J	6.0	3.0	500	10	250		4.0Ø	2.0	15 #	180 *	10M§			ME	TO3	
62	1716-0402†	500m$	50 Ø	§J	10 #	2.0 #	40	7.0	40 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
63	1716-0405†	500m$	50 Ø	§J	10 #	2.0 #	40	7.0	40 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
64	1716-0602†	500m$	50 Ø	§J	10 #	2.0 #	60	7.0	60 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
65	1716-0605†	500m$	50 Ø	§J	10 #	2.0 #	60	7.0	60 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
66	1716-0802†	500m$	50 Ø	§J	10 #	2.0 #	80	7.0	80 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
67	1716-0805†	500m$	50 Ø	§J	10 #	2.0 #	80	7.0	80 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
68	1716-1002†	500m$	50 Ø	§J	10 #	2.0 #	100	7.0	100 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
69	1716-1005†	500m$	50 Ø	§J	10 #	2.0 #	100	7.0	100 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
70	1716-1202†	500m$	50 Ø	§J	10 #	2.0 #	120	7.0	120 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
71	1716-1205†	500m$	50 Ø	§J	10 #	2.0 #	120	7.0	120 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
72	1716-1402†	500m$	50 Ø	§J	10 #	2.0 #	140	7.0	140 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
73	1716-1405†	500m$	50 Ø	§J	10 #	2.0 #	140	7.0	140 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
74	1716-1602†	500m$	50 Ø	§J	10 #	2.0 #	160	7.0	160 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
75	1716-1605†	500m$	50 Ø	§J	10 #	2.0 #	160	7.0	160 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
76	1716-1802†	500m$	50 Ø	§J	10 #	2.0 #	180	7.0	180 ⍁	200u#	2.0Ø	2.0	20		40M§Δ	250m	300nØ⍁	EM	TO61	A
77	1716-1805†	500m$	50 Ø	§J	10 #	2.0 #	180	7.0	180 ⍁	200u#	2.0Ø	5.0	20		40M§Δ	120m	400nØ⍁	EM	TO61	A
78	B3045	500m	20	§J	2.0	.50			15	.05m	5.0Ø	.50	20			1.0		D	TO3	
79	B3046	500m	20	§J	2.0	.50			15	.05m	5.0Ø	.50	20			1.0		D	TO41	
80	B3456	500m	25 Ø		10		100	6.0	60	25uØ	10Ø	5.0	30		200M§Δ	250m		PE	TO61	Ø
81	B3459	500m	25 Ø		10		80	8.0	40	5.0uØ	5.0Ø	1.0	40	150	200M§Δ	200m		PE	TO61	Ø
82	B3459A	500m	25 Ø		10		100	8.0	60	5.0uØ	5.0Ø	1.0	40	150	200M§Δ	200m		PE	TO61	Ø
83	B5000	500m	25 Ø$	$J	3.0	1.0			35	1.5m†Ø	14Ø	500m	30	250 *					X53	
84#	BLY17A	500m	75	§J	10	2.0	100	5.0	100 §	10mØ		10 Δ	5.0		70k§			D	TO36	CØ
85#	BLY17C	500m			10	2.0	100	5.0							70M§			PD	TO36	A
86	MHT7011	500m$	50 Ø	§J	10	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	20	60 #	15M§Δ			PL	TO61	Ø
87	MHT7012	500m$	50 Ø	§J	10	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	20	60 #	15M§Δ			PL	TO61	Ø
88	MHT7013	500m$	50 Ø	§J	10	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	20	60 #	15M§Δ			PL	TO61	Ø
89	MHT7014	500m$	50 Ø	§J	10	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	40	120 #	15M§Δ			PL	TO61	Ø
90	MHT7015	500m$	50 Ø	§J	10	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	40	120 #	15M§Δ			PL	TO61	Ø
91	MHT7016	500m$	50 Ø	§J	10	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	40	120 #	15M§Δ			PL	TO61	Ø
92	MHT7017	500m$	50 Ø	§J	10	2.0	60	5.0	40	1.0uØ	5.0Ø	5.0	100 #		15M§Δ			PL	TO61	Ø
93	MHT7018	500m$	50 Ø	§J	10	2.0	80	5.0	60	1.0uØ	5.0Ø	5.0	100 #		15M§Δ			PL	TO61	Ø
94	MHT7019	500m$	50 Ø	§J	10	2.0	100	5.0	80	1.0uØ	5.0Ø	5.0	100 #		15M§Δ			PL	TO61	Ø
95	MHT7801	500m	50 Ø	$	10	5.0	225	7.0	200	1.0uØ	5.0	5.0	20	60	30M§Δ	100m		PL	TO61	
96	MHT7802	500m	50 Ø	$	10	5.0	250	7.0	225	1.0uØ	5.0	5.0	20	60	30M§Δ	100m		PL	TO61	
97	MHT7803	500m	50 Ø	$	10	5.0	275	7.0	250	1.0uØ	5.0	5.0	20	60	30M§Δ	100m		PL	TO61	
98	MHT7804	500m	50 Ø	$	10	5.0	325	7.0	300	1.0uØ	5.0	5.0	20	60	30M§Δ	100m		PL	TO61	
99	MHT7805	500m	50 Ø	$	10	5.0	350	7.0	325	1.0uØ	5.0	5.0	20	60	30M§Δ	100m		PL	TO61	
100	MHT7806	500m$	50 Ø	§J	10		150	5.0	150	10uØ	5.0Ø	5.0	10 #					PL	MT50a	A
101	MHT7807	500m$	50 Ø	§J	10		200	5.0	200	10uØ	5.0Ø	5.0	15 #					PL	MT50a	A
102	MHT7808	500m$	50 Ø	§J	10		250	5.0	250	10uØ	5.0Ø	5.0	15 #					PL	MT50a	A
103	MHT7809	500m$	50 Ø	§J	10		300	5.0	300	10uØ	5.0Ø	5.0	15 #					PL	MT50a	A
104	S4000	500m$	25 Ø$	$J	5.0	1.0	40	3.0	40	1.0mØ	10Ø	500m	20	60	1.5M§	1.5	2.0u	DM†	X53	AØ
105	S4001	500m$	25 Ø$	$J	5.0	1.0	40	3.0	40	1.0mØ	10Ø	500m	50	150	1.5M§	1.5	2.0u	DM†	X53	AØ
106	S4002	500m$	25 Ø$	$J	5.0	1.0	40	3.0	40	1.0mØ	10Ø	500m	125		1.5M§	1.5	2.0u	DM†	X53	AØ
107	S6000	500m$	25 Ø$	$J	5.0	1.0	60	3.0	60	1.0mØ	10Ø	500m	20	60	1.5M§	1.5	2.0u	DM†	X53	AØ
108	S6001	500m$	25 Ø$	$J	5.0	1.0	60	3.0	60	1.0mØ	10Ø	500m	50	150	1.5M§	1.5	2.0u	DM†	X53	AØ
109	S6002	500m$	25 Ø$	$J	5.0	1.0	60	3.0	60	1.0mØ	10Ø	500m	125		1.5M§	1.5	2.0u	DM†	X53	AØ
110	S8000	500m$	25 Ø$	$J	5.0	1.0	80	3.0	80	1.0mØ	10Ø	500m	20	60	1.5M§	1.5	2.0u	DM†	X53	AØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L E A D	C O D E
1	S8001	500m§	25 Ø§	§J	5.0	1.0	80	3.0	80	1.0mØ	10Ø	500m	50	150	1.5M§	1.5	2.0u	DM†	X53	AØ	
2	S8002	500m§	25 Ø§	§J	5.0	1.0	80	3.0	80	1.0mØ	10Ø	500m	125		1.5M§	1.5	2.0u	DM†	X53	AØ	
3	SE9020†	500m	62	§J	7.0	2.0	400	5.0	180	10u§	5.0Ø	1.0	30 #	125 Ø	70M§		1.0u#Ø	DPE	TO3		CØ
4	SEC1077	500m		§			100	9.0	100 §			500m	1.0k			2.0			MS3		
5	SEC1078	500m		§			50	9.0	50 §			2.0	1.0k			2.0			MS3		
6	SEC1079	500m		§			50	9.0	50 §			2.0	1.0k			2.0			MS3		
7	SEC1080	500m		§			100	9.0	100 §			2.0	1.0k			2.0			MS3		
8	ST415	500m	45 Ø	§J			80	10	80	10mØ	15Ø	1.0	12	60	8.0M§△	10		D	MT10		
9#	TK200A	500m	10 Ø	§J	500m	600mØ	40	6.0	20	1.0uØ	9.0Ø	20m	8.0 †		50M§△			D	TO3		
10#	TK201A	500m	10 Ø	§J	500m	600mØ	40	6.0	20	1.0uØ	9.0Ø	20m	20 †		100M§△			D	TO3		
11	USAF514ES050M	500m	2.0	§J	12	5.0	135	7.0	100	1.0uØ	1.0Ø	1.0	35	150 #	50M§△	150m	1.0uØ		X15a		
12	USAF525ES085M†	500m	2.0	§J	15	5.0	100	8.0	100		3.0Ø	15	27	65	20M§△	13	500n	PE	X20		
13	AMF210	526m	80 Ø	§C	8.0			.50	30 Ø		15Ø	5.0	10		1.5M†	800m		ME	MD19		
14	AMF210A	526m	80 Ø	§C	8.0			.50	60 Ø		15Ø	5.0	10		1.5M†	800m		ME	MD19		
15	AMF210B	526m	80 Ø	§C	8.0			.50	100 Ø		15Ø	5.0	10		1.5M†	800m		ME	MD19		
16	AMF210C	526m	80 Ø	§C	8.0			.50	150 Ø		15Ø	5.0	10		1.5M†	800m		ME	MD19		
17	MM1552	533m	80 Ø#	§J	8.0		65	4.0	35	2.0mØ	5.0Ø	3.0	5.0						MT80	C☑	
18	SG8207	533m	80 Ø#	§J	10 †			6.0†	80 ☑*	10u§♦	5.0Ø	5.0	30	90 #	30M§△			DPE	TO66	A	
19	SG8207A	533m	80 Ø#	§J	10 †			6.0†	80 ☑*	10u§♦	5.0Ø	5.0	70	300 #	40M§△			DPE	TO66	A	
20	STC389	556mØ							60		4.0Ø	1.5			2.0M†			D			
21	2N3577	564m	85 Ø	§S	2.0	500m	100	10	80	100u#	15Ø	1.0	12	60	10M§△	5.2			TO53		Ø
22	NPC14-1A	565m	100 Ø	§J	10 †	4.0	80 †	6.0†	60	1.0u#♦	5.0Ø	2.0	40	90 #	40M§△		100nØ☑	PL	TO3		CØ
23	NPC14-1B	565m	100 Ø	§J	10 †	4.0	80 †	6.0†	60	1.0u#♦	5.0Ø	2.0	70	200 #	50M§△		100nØ☑	PL	TO3		CØ
24	NPC14-2	565m	100 Ø	§J	10 †	4.0	100 †	6.0†	80	1.0u#♦	5.0Ø	2.0	40	90 #	40M§△		100nØ☑	PL	TO3		CØ
25	2N2403	571mØ	8.0 Ø	§	1.0		60	5.0	60 Ø	50u	2.5Ø	600m	20	60	150M†	2.5	20n	E△	TO5		
26	2N2404	571mØ	8.0 Ø	§	1.0		60	5.0	60 Ø	50u	2.5Ø	600m	40	120	150M†	2.5	20n	E△	TO5		
27	MM1620	571m	100 Ø	§J	7.0		48	4.0	24	1.0mØ	5.0Ø	2.4	3.0						MT75b	R	
28	SCC321	571m	100 Ø	§A	10	4.0		5.0	60 ☑	1.0m#	4.0Ø	3.0	20	100		333m		DME	TO3		CØ
29#	BUY44	588m	30 Ø§	§J	7.0	2.5		6.0	150	15m§†	1.5Ø	2.0 Ø	25		25M§		1.0u#	D△	TO3		CØ
30#	BUY55-4†	600m§	60 Ø	§J	10	2.0	150	6.0	125	1.0m	1.5Ø	2.0	25	63	20M§		2.0uØ☑	D	TO3		B
31#	BUY55-6†	600m§	60 Ø	§J	10	2.0	150	6.0	125	1.0m		2.0	40	100	20M§		2.0uØ☑	D	TO3		B
32#	BUY55-10†	600m§	60 Ø	§J	10	2.0	150	6.0	125	1.0m		2.0	63	160	20M§		2.0uØ☑	D	TO3		B
33#	BUY56-4†	600m§	60 Ø	§J	10	2.0	250	6.0	160	1.0m		2.0	25	63	20M§		2.0uØ☑	D	TO3		B
34#	BUY56-6†	600m§	60 Ø	§J	10	2.0	250	6.0	160	1.0m		2.0	40	100	20M§		2.0uØ☑	D	TO3		B
35#	BUY56-10†	600m§	60 Ø	§J	10	2.0	250	6.0	160	1.0m		2.0	63	160	20M§		2.0uØ☑	D	TO3		B
36#	BUY72-4†	600m§	60 Ø	§J	10	2.0	280	6.0	200	1.0m		2.0	25	63	20M§		2.0uØ☑	D	TO3		B
37#	BUY72-6†	600m§	60 Ø	§J	10	2.0	280	6.0	200	1.0m		2.0	40	100	20M§		2.0uØ☑	D	TO3		B
38#	BUY72-10†	600m§	60 Ø	§J	10	2.0	280	6.0	200	1.0m		2.0	63	160	20M§		2.0uØ☑	D	TO3		B
39	SDT1611	600m	105 Ø	§J	5.0	1.0	60	20	40	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
40	SDT1612	600m	105 Ø	§J	5.0	1.0	80	20	60	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
41	SDT1613	600m	105 Ø	§J	5.0	1.0	100	20	80	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
42	SDT1614	600m	105 Ø	§J	5.0	1.0	125	20	100	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
43	SDT1615	600m	105 Ø	§J	5.0	1.0	150	20	125	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
44	SDT1616	600m	105 Ø	§J	5.0	1.0	175	20	150	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
45	SDT1617	600m	105 Ø	§J	5.0	1.0	200	20	175	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
46	SDT1618	600m	105 Ø	§J	5.0	1.0	225	20	200	10u	5.0Ø	1.0	20	60	2.5M§△	500m	400n	PL	TO3		CØ
47	SDT1621	600m	105 Ø	§J	5.0	1.0	60	20	40	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
48	SDT1622	600m	105 Ø	§J	5.0	1.0	80	20	60	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
49	SDT1623	600m	105 Ø	§J	5.0	1.0	100	20	80	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
50	SDT1624	600m	105 Ø	§J	5.0	1.0	125	20	100	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
51	SDT1625	600m	105 Ø	§J	5.0	1.0	150	20	125	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
52	SDT1626	600m	105 Ø	§J	5.0	1.0	175	20	150	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
53	SDT1627	600m	105 Ø	§J	5.0	1.0	200	20	175	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
54	SDT1628	600m	105 Ø	§J	5.0	1.0	225	20	200	10u	5.0Ø	1.0	40	120	2.5M§△	500m	400n	PL	TO3		CØ
55	SDT1631	600m	105 Ø	§J	5.0	1.0	60	20	40	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
56	SDT1632	600m	105 Ø	§J	5.0	1.0	80	20	60	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
57	SDT1633	600m	105 Ø	§J	5.0	1.0	100	20	80	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
58	SDT1634	600m	105 Ø	§J	5.0	1.0	125	20	100	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
59	SDT1635	600m	105 Ø	§J	5.0	1.0	150	20	125	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
60	SDT1636	600m	105 Ø	§J	5.0	1.0	175	20	150	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
61	SDT1637	600m	105 Ø	§J	5.0	1.0	200	20	175	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
62	SDT1638	600m	105 Ø	§J	5.0	1.0	225	20	200	10u	5.0Ø	1.0	80		2.5M§△	500m	400n	PL	TO3		CØ
63	AMF201	625m	85 Ø	§C	13			.50	30 Ø		15Ø	10	10		1.0M†	400m		ME	MD19		
64	AMF201A	625m	85 Ø	§C	13			.50	60 Ø		15Ø	10	10		1.0M†	400m		ME	MD19		
65#	2SC1325	640m	80 Ø	§	6.0		1.5k	6.0	600	20uØ	15Ø	1.0	5.0	60 #			1.0u#	ME	TO3		CØ
66#	2SD322	640mØ	80 Ø	§J	7.0		120	7.0	80	300uØ	5.0Ø	4.0	30	120 #				DM	TO3		CØ
67#	2SD323	640mØ	80 Ø	§J	7.0		150	7.0	100	300uØ	5.0Ø	4.0	30	120 #				DM	TO3		CØ
68	156-043	660m	115 Ø	§J	15	7.0	50	6.0	40		10Ø	3.0	18	55 #				D△	TO3		CØ
69	156-044	660m	115 Ø	§J	15	7.0	50	7.0	40		4.0Ø	4.0	20	70 #				D△	TO3		CØ
70	156-064	660m	115 Ø	§J	15	7.0	70	7.0	60		4.0Ø	4.0	20	70 #				D△	TO3		CØ
71	156-083	660m	115 Ø	§J	15	7.0	90	6.0	80		10Ø	3.0	18	55 #				D△	TO3		CØ
72	156-084	660m	115 Ø	§J	15	7.0	80	7.0	80		4.0Ø	4.0	20	70 #				D△	TO3		CØ
73	156-104	660m	115 Ø	§J	15	7.0	110	7.0	100		4.0Ø	4.0	20	70 #				D△	TO3		CØ
74	156-123	660m	115 Ø	§J	15	7.0	130	6.0	120		10Ø	3.0	18	55 #				D△	TO3		CØ
75	156-124	660m	115 Ø	§J	15	7.0	130	7.0	120		4.0Ø	4.0	20	70 #				D△	TO3		CØ
76	156-143	660m	115 Ø	§J	15	7.0	150	6.0	140		10Ø	3.0	18	55 #				D△	TO3		CØ
77	156-144	660m	115 Ø	§J	15	7.0	150	7.0	140		4.0Ø	4.0	20	70 #				D△	TO3		CØ
78	156-164	660m	115 Ø	§J	15	7.0	170	7.0	160		4.0Ø	4.0	20	70 #				D△	TO3		CØ
79	SC0321	660m	115 Ø	§J	10 †	4.0	60 †	5.0†	60 ☑	1.5m§♦	4.0Ø	5.0	20	140 #	1.0M§△			DME	TO3		CØ
80	2N451	666m	85 Ø	§J	5.0	500m	65	10	65	20m	10Ø	1.0	10			4.0		D	MT4		
81	2N452	666m	85 Ø	§J	5.0	500m	65	10	65	50m	20Ø	2.0	8.0	12 Ø	400k†	2.5		D△	MT4		
82	2N453	666m	85 Ø	§J	2.0	500m	30	10	30	20m	20Ø	1.0	20	30 Ø	400k†	6.0		D	MT4		
83	2N454	666m	85 Ø	§J	2.0	500m	65	10	65	20m	20Ø	1.0	8.0	15 Ø	400k†	10		D	MT4		
84	2N5034	666m	83 Ø	§J	6.0	6.0	55 †	5.0†	45 §	2.0m△♦	4.0Ø	4.0	20	80		250m			MS9		CØ
85	2N5035	666m	83 Ø	§J	6.0	6.0	55 †	5.0†	45 §	2.0m△♦	4.0Ø	4.0	20	80		250m			MS9a		CØ
86	2N5036	666m	83 Ø	§J	8.0	6.0	70 †	5.0†	60 §	2.0m△♦	4.0Ø	5.0	20	80		200m			MS9		CØ
87	6B10	666m	50 Ø	§J	10	5.0	175	15	120	10m	15Ø	10	30	90	10M§	500m		DM	TO61		
88	1713-0402	666m	115 Ø	§J	5.0	2.0	50	7.0	40 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
89	1713-0405	666m	115 Ø	§J	5.0	2.0	50	7.0	40 ☑	4.0m#	4.0Ø	5.0	15 #		40M§△			EM	TO3		
90	1713-0602	666m	115 Ø	§J	5.0	2.0	70	7.0	60 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
91	1713-0605	666m	115 Ø	§J	5.0	2.0	70	7.0	60 ☑	4.0m#	4.0Ø	5.0	15 #		40M§△			EM	TO3		
92	1713-0802	666m	115 Ø	§J	5.0	2.0	90	7.0	80 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
93	1713-0805	666m	115 Ø	§J	5.0	2.0	90	7.0	80 ☑	4.0m#	4.0Ø	5.0	15 #		40M§△			EM	TO3		
94	1713-1002	666m	115 Ø	§J	5.0	2.0	110	7.0	100 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
95	1713-1005	666m	115 Ø	§J	5.0	2.0	110	7.0	100 ☑	4.0m#	4.0Ø	5.0	15 #		40M§△			EM	TO3		
96	1713-1202	666m	115 Ø	§J	5.0	2.0	130	7.0	120 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
97	1713-1205	666m	115 Ø	§J	5.0	2.0	130	7.0	120 ☑	4.0m#	4.0Ø	5.0	15 #		40M§△			EM	TO3		
98	1713-1402	666m	115 Ø	§J	5.0	2.0	150	7.0	140 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
99	1713-1405	666m	115 Ø	§J	5.0	2.0	150	7.0	140 ☑	4.0m#	4.0Ø	5.0	15 #		40M§△			EM	TO3		
100	1713-1602	666m	115 Ø	§J	5.0	2.0	170	7.0	160 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
101	1713-1605	666m	115 Ø	§J	5.0	2.0	170	7.0	160 ☑	4.0m#	4.0Ø	5.0	15 #		40M§△			EM	TO3		
102	1713-1802	666m	115 Ø	§J	5.0	2.0	190	7.0	180 ☑	4.0m#	4.0Ø	2.0	15 #		40M§△			EM	TO3		
103	40513	666m	83 Ø	§J	6.0	6.0		5.0		2.5m*	4.0Ø	2.5	20	70 #	800k§△			D	MS9a		CØ
104	40675*	666m#	100 Ø	§J	10			3.5	35	30m§								PE	L68		
105	A1381	666m	100 Ø	§J	10		100	4.0	80 §	10mØ	1.0	10 △	4.0		50M§△			PL	TO36		
106	B148005†	666m	100 Ø	§S	15	4.0		7.0	60	10u§	5.0Ø	2.0	40	160 #	60M§△	100m	200n		TO61		AØ
107	B170000	666m	60 Ø	§J	6.0	3.0	50	5.0	40	30m†#	4.0Ø	500m	20	120 *	15k	400m		DM	TO3		CØ
108	B170001	666m	90 Ø	§J	10	5.0	50	5.0	40	30m†#	4.0Ø	500m	20	120 *	15k	270m		DM	TO3		CØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	LEAD CODE
1	B170002	666m	120 Ø	§J	15	7.0	50	5.0	40	30mt#	4.0Ø	500m	20	120 *	15k	300m		DM	TO3	CØ
2	B170003	666m	60 Ø	§J	6.0	3.0	80	5.0	70	30mt#	4.0Ø	500m	20	120 *	15k	400m		DM	TO3	CØ
3	B170004	666m	90 Ø	§J	10	5.0	80	5.0	70	30mt#	4.0Ø	500m	20	120 *	15k	270m		DM	TO3	CØ
4	B170005	666m	120 Ø	§J	15	7.0	80	5.0	70	30mt#	4.0Ø	500m	20	120 *	15k	300m		DM	TO3	CØ
5	B170006	666m	60 Ø	§J	6.0	3.0	100	5.0	100	30mt#	4.0Ø	500m	20	120 *	15k	400m		DM	TO3	CØ
6	B170007	666m	90 Ø	§J	10	5.0	100	5.0	100	30mt#	4.0Ø	500m	20	120 *	15k	270m		DM	TO3	CØ
7	B170008	666m	120 Ø	§J	15	7.0	100	5.0	100	30mt#	4.0Ø	500m	20	120 *	15k	300m		DM	TO3	CØ
8	B170009	666m	60 Ø	§J	6.0	3.0	50	2.0	40	30mt#	4.0Ø	1.0	30			400m		DM	TO3	CØ
9	B170010	666m	90 Ø	§J	10	5.0	50	2.0	40	30mt#	4.0Ø	3.0	20			270m		DM	TO3	CØ
10	B170011	666m	120 Ø	§J	15	7.0	50	2.0	40	30mt#	4.0Ø	5.0	12			300m		DM	TO3	CØ
11	B170012	666m	60 Ø	§J	6.0	3.0	80	2.0	70	30mt#	4.0Ø	1.0	30			400m		DM	TO3	CØ
12	B170013	666m	90 Ø	§J	10	5.0	80	2.0	70	30mt#	4.0Ø	3.0	20			270m		DM	TO3	CØ
13	B170014	666m	120 Ø	§J	15	7.0	80	2.0	70	30mt#	4.0Ø	5.0	12			300m		DM	TO3	CØ
14	B170015	666m	60 Ø	§J	6.0	3.0	100	2.0	100	30mt#	4.0Ø	1.0	30			400m		DM	TO3	CØ
15	B170016	666m	90 Ø	§J	10	5.0	100	2.0	100	30mt#	4.0Ø	3.0	20			270m		DM	TO3	CØ
16	B170017	666m	120 Ø	§J	15	7.0	100	2.0	100	30mt#	4.0Ø	5.0	12			300m		DM	TO3	CØ
17	B170018†	666m	60 Ø	§J	6.0	3.0	50	5.0	40	30mt#	4.0Ø	1.0	30			400m	4.0u	DM	TO3	CØ
18	B170019†	666m	90 Ø	§J	10	5.0	50	5.0	40	30mt#	4.0Ø	3.0	20			270m	6.0u	DM	TO3	CØ
19	B170020†	666m	120 Ø	§J	15	7.0	50	5.0	40	30mt#	4.0Ø	5.0	12			300m	8.0u	DM	TO3	CØ
20	B170021†	666m	60 Ø	§J	6.0	3.0	80	5.0	70	30mt#	4.0Ø	1.0	30			400m	4.0u	DM	TO3	CØ
21	B170022†	666m	90 Ø	§J	10	5.0	80	5.0	70	30mt#	4.0Ø	3.0	20			270m	6.0u	DM	TO3	CØ
22	B170023†	666m	120 Ø	§J	15	7.0	80	5.0	70	30mt#	4.0Ø	5.0	12			300m	8.0u	DM	TO3	CØ
23	B170024†	666m	60 Ø	§J	6.0	3.0	100	5.0	100	30mt#	4.0Ø	1.0	30			400m	4.0u	DM	TO3	CØ
24	B170025†	666m	90 Ø	§J	10	5.0	100	5.0	100	30mt#	4.0Ø	3.0	20			270m	6.0u	DM	TO3	CØ
25	B170026†	666m	120 Ø	§J	15	7.0	100	5.0	100	30mt#	4.0Ø	5.0	12			300m	8.0u	DM	TO3	CØ
26	B176000	666m$	50 Ø	§J	5.0	2.5	250	5.0	250 #	2.0uØ	5.0Ø	100m	25						TO3	CØ
27	B176001	666m$	50 Ø	§J	5.0	2.5	250	5.0	250 #	2.0uØ	5.0Ø	500m	20						TO3	CØ
28	B176002	666m$	50 Ø	§J	5.0	2.5	250	5.0	250 #	2.0uØ	5.0Ø	1.5	10						TO3	CØ
29	B176003	666m$	50 Ø	§J	5.0	2.5	250	5.0	250 #	2.0uØ	5.0Ø	2.5	10						TO3	CØ
30	B176004	666m$	50 Ø	§J	5.0	2.5	400	5.0	400 #	2.0uØ	5.0Ø	100m	25						TO3	CØ
31	B176005	666m$	50 Ø	§J	5.0	2.5	400	5.0	400 #	2.0uØ	5.0Ø	500m	20						TO3	CØ
32	B176006	666m$	50 Ø	§J	5.0	2.5	400	5.0	400 #	2.0uØ	5.0Ø	1.5	10						TO3	CØ
33	B176007	666m$	50 Ø	§J	5.0	2.5	400	5.0	400 #	2.0uØ	5.0Ø	2.5	10						TO3	CØ
34	B176008	666m$	50 Ø	§J	5.0	2.5	550	5.0	550 #	2.0uØ	5.0Ø	100m	25						TO3	CØ
35	B176009	666m$	50 Ø	§J	5.0	2.5	550	5.0	550 #	2.0uØ	5.0Ø	500m	20						TO3	CØ
36	B176010	666m$	50 Ø	§J	5.0	2.5	550	5.0	550 #	2.0uØ	5.0Ø	1.5	10						TO3	CØ
37	B176011	666m$	50 Ø	§J	5.0	2.5	550	5.0	550 #	2.0uØ	5.0Ø	2.5	10						TO3	CØ
38	B176012	666m$	50 Ø	§J	5.0	2.5	650	5.0	650 #	2.0uØ	5.0Ø	100m	25						TO3	CØ
39	B176013	666m$	50 Ø	§J	5.0	2.5	650	5.0	650 #	2.0uØ	5.0Ø	500m	20						TO3	CØ
40	B176014	666m$	50 Ø	§J	5.0	2.5	650	5.0	650 #	2.0uØ	5.0Ø	1.5	10						TO3	CØ
41	B176015	666m$	50 Ø	§J	5.0	2.5	650	5.0	650 #	2.0uØ	5.0Ø	2.5	10						TO3	CØ
42	B176024	666m$	50 Ø	§J	5.0	2.5	400	5.0	400 #	2.0uØ	5.0Ø	1.5	10					△	TO3	CØ
43	B176025	666m$	50 Ø	§J	5.0	2.5	400	5.0	400 #	2.0uØ	5.0Ø	2.5	10					△	TO3	CØ
44	B176026	666m$	50 Ø	§J	5.0	2.5	550	5.0	550 #	2.0uØ	5.0Ø	1.5	10					△	TO3	CØ
45	B176027	666m$	50 Ø	§J	5.0	2.5	550	5.0	550 #	2.0uØ	5.0Ø	2.5	10					△	TO3	CØ
46	B176028	666m$	50 Ø	§J	5.0	2.5	650	5.0	650 #	2.0uØ	5.0Ø	1.5	10					△	TO3	CØ
47	B176029	666m$	50 Ø	§J	5.0	2.5	650	5.0	650 #	2.0uØ	5.0Ø	2.5	10					△	TO3	CØ
48#	BLY72	666m	100 #	§J	10		80	6.0	60	10u§♦	5.0Ø	10	20 #	45 Ø	30M△§	170m		DPE	TO61	A
49#	BUY12	666m§	50 Ø	§J	10	2.0	210	5.0	80	200uØ	1.7Ø	8.0	10	21 Ø	11M		500n	ME	TO41	
50#	BUY13	666m§	50 Ø	§J	8.0	2.0	120	5.0	70	200uØ	1.7Ø	6.0	11	25 Ø	11M		500n	ME	TO41	
51	DTS721	666m§	50 Ø	§J	3.0	1.0		5.0	1.0k	250u△	5.0Ø	150m	20	60	1.5M§△			D	Y204a	CØ
52	MHT7201	666m$	50 Ø	§J	10		225	8.0	200	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO3	A
53	MHT7202	666m$	50 Ø	§J	10		250	8.0	225	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO3	A
54	MHT7203	666m$	50 Ø	§J	10		275	8.0	250	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO3	A
55	MHT7204	666m$	50 Ø	§J	10		325	8.0	300	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO3	A
56	MHT7205	666m$	50 Ø	§J	10		350	8.0	325	1.0uØ	5.0Ø	5.0	20	60 #	50M§△			PL	TO3	A
57	MHT7601	666m	60 Ø$	§J	10	5.0	60	8.0	40	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
58	MHT7602	666m	60 Ø$	§J	10	5.0	80	8.0	60	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
59	MHT7603	666m	60 Ø$	§J	10	5.0	100	8.0	80	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
60	MHT7604	666m	60 Ø$	§J	10	5.0	140	8.0	120	500n	5.0Ø	5.0	40	120 #	60M§	100m		PE	TO3	CØ
61	MHT7605	666m	60 Ø$	§J	10	5.0	170	8.0	150	500n	5.0Ø	5.0	40	120 #	60M§	120m.		PE	TO3	CØ
62	MHT7606	666m	60 Ø$	§J	10	5.0	220	8.0	200	500n	5.0Ø	5.0	40	120 #	60M§	120m		PE	TO3	CØ
63	MHT7607	666m	60 Ø	$	10	5.0	60	8.0	40	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
64	MHT7608	666m	60 Ø	$	10	5.0	80	8.0	60	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
65	MHT7609	666m	60 Ø	$	10	5.0	100	8.0	80	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
66	MHT7610	666m	60 Ø	$	10	5.0	140	8.0	120	500n	5.0	5.0	20	60	60M§	100m		PL	TO3	CØ
67	MHT7611	666m	60 Ø	$	10	5.0	170	8.0	150	500n	5.0	5.0	20	60	60M§	120m		PL	TO3	CØ
68	MHT7612	666m	60 Ø	$	10	5.0	220	8.0	200	500n	5.0	5.0	20	60	60M§	120m		PL	TO3	CØ
69	SDT1001	666m§	100 Ø	§J	3.5	1.0		5.0	225 #	5.0m△Ø	5.0Ø	1.0	10		5.0M§	1.0			TO3	CØ
70	SDT1002	666m§	100 Ø	§J	3.5	1.0		5.0	275 #	5.0m△Ø	5.0Ø	1.0	10		5.0M§	1.0			TO3	CØ
71	SDT1003	666m§	100 Ø	§J	3.5	1.0		5.0	325 #	500u△Ø	5.0Ø	1.0	20	80	5.0M§	600m			TO3	CØ
72	SDT1004	666m§	100 Ø	§J	3.5	1.0		5.0	400 #	500u△Ø	5.0Ø	1.0	20	80	5.0M§	600m			TO3	CØ
73	SDT1005	666m§	100 Ø	§J	3.5	1.0		5.0	425 #	500u△Ø	5.0Ø	1.0	20	80	5.0M§	600m			TO3	CØ
74	SDT1006	666m§	100 Ø	§J	3.5	1.0		5.0	475 #	500u△Ø	5.0Ø	1.0	20	80	5.0M§	600m			TO3	CØ
75	SDT1007	666m§	100 Ø	§J	3.5	1.0		5.0	525 #	500u△Ø	5.0Ø	1.0	20	80	5.0M§	600m			TO3	CØ
76	SDT1011	666m§	100 Ø	§J	5.0	2.0		5.0	225 #	10m△Ø	5.0Ø	3.0	10		5.0M§	330m			TO3	CØ
77	SDT1012	666m§	100 Ø	§J	5.0	2.0		5.0	275 #	10m△Ø	5.0Ø	3.0	15		5.0M§	330m			TO3	CØ
78	SDT1013	666m§	100 Ø	§J	5.0	2.0		5.0	325 #	5.0m△Ø	5.0Ø	3.0	15	90	5.0M§	270m			TO3	CØ
79	SDT1014	666m§	100 Ø	§J	5.0	2.0		5.0	400 #	5.0m△Ø	5.0Ø	3.0	15	90	5.0M§	270m			TO3	CØ
80	SDT1015	666m§	100 Ø	§J	5.0	2.0		5.0	425 #	5.0m△Ø	5.0Ø	3.0	15	90	5.0M§	270m			TO3	CØ
81	SDT1016	666m§	100 Ø	§J	5.0	2.0		5.0	475 #	5.0m△Ø	5.0Ø	3.0	15	90	5.0M§	270m			TO3	CØ
82	SDT1017	666m§	100 Ø	§J	5.0	2.0		5.0	525 #	5.0m△Ø	5.0Ø	3.0	15	90	5.0M§	270m			TO3	CØ
83	SDT8105	666m	115		20	4.0	80	8.0	60	100u	5.0	10	40	120	30M			PL	X21	
84	SDT8106	666m	115		20	4.0	100	8.0	80	100u	5.0	10	40	120	30M			PL	X21	
85	SDT8110	666m	115		20	4.0	80	8.0	60	10u	5.0	10	100		30M			PL	X21	
86	SDT8111	666m	15		20	4.0	100	8.0	80	10u	5.0	10	100		30M			PL	X21	
87	SDT8112	666m	115		20	4.0	80	8.0	60	10u	5.0	10	20	60	30M			PL	X21	
88	SDT8113	666m	115		20	4.0	100	8.0	80	10u	5.0	10	20	60	30M			PL	X21	
89	SDT8114	666m	115		20	4.0	40	5.0	25	10u	5.0	10	40		30M			PL	X21	
90	SDT8115	666m	115		20	4.0	80	8.0	60	10u	5.0	10	40	120	30M			PL	X21	
91	SDT8116	666m	115		20	4.0	100	8.0	80	10u	5.0	10	40	120	30M			PL	X21	
92	SDT8131	666m	115		20	4.0	80	8.0	60	10u	5.0	10	40	120	30M			PL	X21	
93	SDT8132	666m	115		20	4.0	100	8.0	80	10u	5.0	10	40	120	30M			PL	X21	
94	SDT8133	666m	115		20	4.0	80	8.0	60	10u	5.0	10	100		30M			PL	X21	
95	SDT8134	666m	115		20	4.0	100	8.0	80	10u	5.0	10	100		30M			PL	X21	
96	STC4242	666m	117 Ø	§J	7.5	3.0		6.0	40	5.0m§†	10Ø	3.0	18	55 #				D	MD21	Ø
97	STS1121	666m	117 Ø	§J	10	5.0	200	7.0	200	2.0m#	4.0Ø	3.0	20	70	20k△	330m		DM	TO3	CØ
98	STS1122	666m	115 Ø	§J	15	5.0	200	7.0	200	2.0m#	4.0Ø	4.0	20	70	20k△	280m		DM	TO3	CØ
99	STS1131	666m	115 Ø	§J	7.5	2.0	225	7.0	200	1.0m§	10	3.0	18	60	4.0M△	500m		DM	TO3	CØ
100	STS1132	666m	115 Ø	§J	7.5	2.0	275	7.0	250	1.0m§	10	3.0	18	60	4.0M△	500m		DM	TO3	CØ
101	STS1133	666m	115 Ø	§J	7.5	2.0	350	7.0	300	1.0m§	10	3.0	18	60	4.0M△	500m		DM	TO3	CØ
102	STS1134	666m	115 Ø	§J	7.5	2.0	400	7.0	330	1.0m§	10	3.0	18	60	4.0M△	500m		DM	TO3	CØ
103	TIX155	666m$	50 Ø	§J	10	1.0	120	15	80	5.0m	5.0Ø	2.0	1.5k	10k#		500m		PME	TO53	
104	TK3055	666m	115 Ø	§J	15	7.0	95	7.0	60 Ø		4.0Ø	4.0	20	70 †	20k△	280m		D△	TO3	
105	TK9201	666m	115 Ø	§J	10	7.0	55	7.0	45	5.0m#	4.0	4.0	18		2.0M§△	275m			TO3	CØ
106	TK30551	666m	115 Ø	§C	15	7.0	55	7.0	45	2.0m△	4.0Ø	4.0	20	70	2.0M§△	275m			TO3	CØ
107	TK30552	666m	115 Ø	§C	15	7.0	100	7.0	80	700u△	4.0Ø	4.0	20	70	2.0M§△	275m			TO3	CØ
108	TK30553	666m	115 Ø	§C	15	7.0	120	7.0	100	700u△	4.0Ø	4.0	20	70	2.0M§△	275m			TO3	CØ
109	TK30554	666m	115 Ø	§C	15	7.0	140	7.0	120	700u△	4.0Ø	4.0	20	70	2.0M§△	275m			TO3	CØ
110	TK30555	666m	115 Ø	§C	15	7.0	55	7.0	45	2.0m△	4.0Ø	4.0	15	70	2.0M§△	275m			TO3	CØ

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	MIN	MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #Y200 s/a TO200 Ser.	L C E O A D D E
1	TK30556	666m	115 Ø	§C	15	7.0	80	7.0	60	700uΔ	4.0Ø	4.0	15	70	2.0M§Δ	275m			TO3	CØ
2	TK30557	666m	115 Ø	§C	15	7.0	100	7.0	80	700uΔ	4.0Ø	4.0	15	70	2.0M§Δ	275m			TO3	CØ
3	TK30558	666m	115 Ø	§C	15	7.0	120	7.0	100	700uΔ	4.0Ø	4.0	15	70	2.0M§Δ	275m			TO3	CØ
4	TK30559	666m	115 Ø	§C	15	7.0	140	7.0	120	700uΔ	4.0Ø	4.0	15	70	2.0M§Δ	275m			TO3	CØ
5	TK30560	666m	115 Ø	§C	15	7.0	40	5.0	30	5.0mΔ	2.0Ø	2.0	15		2.0M§Δ	275m			TO3	CØ
6#	2SC519	667m	50	§J	5.0		110	5.0	100	10mØ	5.0Ø	1.0	50 Ø		20k§			ME	TO3	
7#	2SC520	667m	50	§J	5.0		70	5.0	80	10mØ	5.0Ø	1.0	50 Ø		20k§			ME	TO3	
8#	2SC521	667m	50	§J	5.0		40	5.0	50	10mØ	5.0Ø	1.0	50 Ø		20k§			ME	TO3	
9#	2SD181	667m	100 Ø	§	15 #	5.0	150	7.0	100	1.0mØ	5.0Ø	5.0	30	160 #	10M§	100m		ME	TO3	CØ
10	CTP1136	667m		#J			60	20				.50				.50		A		
11#	ST66†	667mØ	80	§J	6.0	3.0	60	10	40	1.0m	4.0	1.5	10	80	25k†	1.0	1.3u	D	TO3	
12#	ST610†	667mØ	80	§J	6.0	3.0	100	10	55	.10m	4.0	1.5	10	80	25k†	1.0	1.3u	D	TO3	
13#	ST615†	667mØ	80	§J	6.0	3.0	150	10	70	.10m	4.0	1.5	10	80	25k†	1.0	1.3u	D	TO3	
14	1756-0440†	670m§	240	§J	75 #	15	40	7.0	40 ☑	5.0m#	3.0Ø	40	15 #		20M§Δ		500nØ☑	EM	TO63	
15	1756-0460†	670m§	240	§J	75 #	15	40	7.0	40 ☑	5.0m#	3.0Ø	60	15 #		20M§Δ		600nØ☑	EM	TO63	
16	156-04	684m	120 Ø	§J	8.0	3.0	50	10	40	20m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	TO3	
17	156-06	684m	120 Ø	§J	8.0	3.0	70	10	60	20m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	TO3	
18	156-08	684m	120 Ø	§J	8.0	3.0	90	10	80	20m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	TO3	
19	156-10	684m	120 Ø	§J	8.0	3.0	110	10	100	20m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	TO3	
20	STC4252	685m	120 Ø	§J	8.0	3.0		10	40	20m#†	4.0Ø	5.0	15 #		1.0M§Δ	200m		D	TO3	CØ
21	STC4253	685m	120 Ø	§J	8.0	3.0		10	60	20m#†	4.0Ø	5.0	15 #		1.0M§Δ	200m		D	TO3	CØ
22	STC4254	685m	120 Ø	§J	8.0	3.0		10	80	20m#†	4.0Ø	5.0	15 #		1.0M§Δ	200m		D	TO3	CØ
23	STC4255	685m	120 Ø	§J	8.0	3.0		10	100	20m#†	4.0Ø	5.0	15 #		1.0M§Δ	300m		D	TO3	CØ
24	151-30	700m	100 Ø	§J	6.0	3.0	325	25	300	10 #	4.0Ø	1.5	22 Ø			870m	7.0 ØØ	FΔ	MT1	
25	152-30	700m	100 Ø	§J	6.0	3.0	325	25	300	10 #	4.0Ø	1.5	37 Ø			830m	7.0 ØØ	FΔ	MT1	
26	SCD321	714m	125 Ø	§A	10	4.0		5.0	80 ☑	1.0m#	4.0Ø	4.0	20	100		250m		DME	TO3	CØ
27	SDT7761†	714m§	71 Ø	§J	10	2.0	60	20	40	1.0uØ	5.0Ø	5.0	20	80	5.0M§Δ	100m	400nØ		TO61	AØ
28	SDT7762†	714m§	71 Ø	§J	10	2.0	80	20	60	1.0uØ	5.0Ø	5.0	20	80	5.0M§Δ	100m	400nØ		TO61	AØ
29	SDT7763†	714m§	71 Ø	§J	10	2.0	100	20	80	1.0uØ	5.0Ø	5.0	20	80	5.0M§Δ	100m	400nØ		TO61	AØ
30	SDT7764†	714m§	71 Ø	§J	10	2.0	120	20	100	1.0uØ	5.0Ø	5.0	20	80	5.0M§Δ	100m	400nØ		TO61	AØ
31	SDT7765†	714m§	71 Ø	§J	10	2.0	140	20	125	1.0uØ	5.0Ø	5.0	20	80	5.0M§Δ	100m	400nØ		TO61	AØ
32	SDT7766†	714m§	71 Ø	§J	10	2.0	165	20	150	1.0uØ	5.0Ø	5.0	20	80	5.0M§Δ	100m	400nØ		TO61	AØ
33	2N2902	729m	40 Ø	§S	750m	500m	120	10	120		10	50m	30	90 #		15			TO57	
34	STT2650	751m§	75 Ø	§J	7.5	1.0	150	12	150	1.0u§	15Ø	2.0	30	90 #	25M§			DPLΔ	TO61	A
35	STT2651	751m§	75 Ø	§J	7.5	1.0	140	12	120	1.0u§	15Ø	2.0	30	90 #	25M§			DPLΔ	TO61	A
36	STT2652	751m§	75 Ø	§J	7.5	1.0	140	12	120	1.0u§	15Ø	2.0	50	150 #	25M§			DPLΔ	TO61	A
37	STT2653	751m§	75 Ø	§J	7.5	1.0	120	12	100	1.0u§	15Ø	2.0	30	90 #	25M§Δ			DPLΔ	TO61	A
38	STT2654	751m§	75 Ø	§J	7.5	1.0	100	12	80	1.0u§	15Ø	2.0	30	90 #	25M§Δ			DPLΔ	TO61	A
39	STT2655	751m§	75 Ø	§J	7.5	1.0	75	10	60	1.0u§	15Ø	2.0	30	90 #	25M§Δ			DPLΔ	TO61	A
40	STT2656	751m§	75 Ø	§J	7.5	1.0	40	10	30	500u§	15Ø	2.0	25 #		25M§Δ			DPLΔ	TO61	A
41	2N1675†	800m♦	50 Ø	§C	10	10	100	5.0	100 Ø	10m#♦	10Ø	1.0	25	100	120M§Δ	500m	1.0uØ☑		TO32	AØ
42#	2SC102	800mØ		§J	7.0			5.0		45mØ	10	500m	10 †					ME	TO36	
43#	2SD118BL	800m	100 Ø	§J	7.0	3.0	130	10	110	50uØ	5.0Ø	1.0	80	200	2.0M§	300m		D	TO3	CØ
44#	2SD118R	800m	100 Ø	§J	7.0	3.0	130	10	110	50uØ	5.0Ø	1.0	30	70	2.0M§	300m		D	TO3	CØ
45#	2SD118Y	800m	100 Ø	§J	7.0	3.0	130	10	110	50uØ	5.0Ø	1.0	50	120	2.0M§	300m		D	TO3	CØ
46#	2SD119BL	800m	100 Ø	§J	7.0	3.0	100	10	80	50uØ	5.0Ø	1.0	80	200	2.0M§	300m		D	TO3	CØ
47#	2SD119R	800m	100 Ø	§J	7.0	3.0	100	10	80	50uØ	5.0Ø	1.0	30	70	2.0M§	300m		D	TO3	CØ
48#	2SD119Y	800m	100 Ø	§J	7.0	3.0	100	10	80	50uØ	5.0Ø	1.0	50	120	2.0M§	300m		D	TO3	CØ
49#	M5A	800m	100		5.0	3.0	50	4.0	30	10mØ	5.0	5.0	10	50	500k	200m	700n			
50#	M5B	800m	100		5.0	3.0	100	4.0	60	10m	5.0	5.0	10	50	500k	200m	700n			
51#	M5C	800m	100		5.0	3.0	200	4.0	140	10m	5.0	5.0	10	50	500k	200m	700n			
52#	M5D	800m	100		5.0	3.0	300	4.0	200	10mØ	5.0	5.0	10	50	500k	200m	700n			
53#	M10A	800m	100		10	3.0	50	4.0	30	10m	5.0	10	10	50	500k	200m	700n			
54#	M10B	800m	100		10	3.0	100	4.0	60	10m	5.0	10	10	50	500k	200m	700n			
55#	M10C	800m	100		10	3.0	200	4.0	140	10m	5.0	10	10	50	500k	200m	700n			
56#	M10D	800m	100		10	3.0	300	4.0	200	10mØ	5.0	10	10	50	500k	200m	700n			
57	SDT1250	800m	140		5.0	1.0	250	8.0	200	5.0m	5.0	1.0	15		2.0M			PL	TO61	
58	SDT1251	800m	140		5.0	1.0	400	8.0	325	5.0m	5.0	1.0	15		2.0M			PL	TO61	
59	SDT1252	800m	140		5.0	1.0	500	8.0	400	5.0m	5.0	1.0	15		2.0M			PL	TO61	
60	SDT1253	800m	140		5.0	1.0	600	8.0	400	5.0m	5.0	1.0	15		2.0M			PL	TO61	
61	SDT1254	800m	140		5.0	1.0	700	8.0	400	5.0m	5.0	1.0	15		2.0M			PL	TO61	
62	SDT1255	800m	140		5.0	1.0	250	8.0	200	1.0m	5.0	2.0	10	50	2.0M			PL	TO61	
63	SDT1256	800m	140		5.0	1.0	400	8.0	325	1.0m	5.0	2.0	10	50	2.0M			PL	TO61	
64	SDT1257	800m	140		5.0	1.0	500	8.0	400	1.0m	5.0	2.0	10	50	2.0M			PL	TO61	
65	SDT1258	800m	140		5.0	1.0	600	8.0	400	1.0m	5.0	2.0	10	50	2.0M			PL	TO61	
66	SDT1259	800m	140		5.0	1.0	700	8.0	400	1.0m	5.0	2.0	10	50	2.0M			PL	TO61	
67	SDT1260	800m	140		5.0	1.0	250	8.0	200	1.0m	5.0	3.0	10		2.0M			PL	TO61	
68	SDT1261	800m	140		5.0	1.0	400	8.0	325	1.0m	5.0	3.0	10		2.0M			PL	TO61	
69	SDT1262	800m	140		5.0	1.0	500	8.0	400	1.0m	5.0	3.0	10		2.0M			PL	TO61	
70	SDT1263	800m	140		5.0	1.0	600	8.0	400	1.0m	5.0	3.0	10		2.0M			PL	TO61	
71	SDT1264	800m	140		5.0	1.0	700	8.0	400	1.0m	5.0	3.0	10		2.0M			PL	TO61	
72	SE7030	800m		§J	400m		300	7.0	300	1.0u§♦	10Ø	50m	40	240 #	30MΔ			DPL	MD10e	CØ
73	130-04	833m#	120 Ø	§J	8.0	3.0	50	10	40	10m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	MT1	
74	130-06	833m#	120 Ø	§J	8.0	3.0	70	10	60	10m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	MT1	
75	130-08	833m#	120 Ø	§J	8.0	3.0	90	10	80	10m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	MT1	
76	130-10	833m#	120 Ø	§J	8.0	3.0	110	10	100	10m#	4.0Ø	5.0	15		1.0M§Δ	200m	1.6u	D	MT1	
77	2N2589†	850m§	85 Ø	§C	7.0	5.0	150	25	150	2.0m♦	4.0Ø	7.0	17	51	250k§Δ	150m	1.5uØ☑		MT1b	CØ
78	1723-2005	854m	150 Ø	§J	20 #	5.0	200	7.0	200 ☑	5.0m#	4.0Ø	5.0	20 #		30M§Δ		250nØ☑	EMΔ	TO3	
79	1726-0405	854m	150 Ø	§J	10	5.0	50	7.0	40 ☑	4.0m#	4.0Ø	5.0	15 #		40M§Δ			EM	TO61	
80	1726-0410	854m	150 Ø	§J	10	5.0	50	7.0	40 ☑	4.0m#	4.0Ø	10	20 #		40M§Δ			EM	TO61	
81	1726-0605	854m	150 Ø	§J	10	5.0	70	7.0	60 ☑	4.0m#	4.0Ø	5.0	15 #		40M§Δ			EM	TO61	
82	1726-0610	854m	150 Ø	§J	10	5.0	70	7.0	60 ☑	4.0m#	4.0Ø	10	20 #		40M§Δ			EM	TO61	
83	1726-0805	854m	150 Ø	§J	10	5.0	90	7.0	80 ☑	4.0m#	4.0Ø	5.0	15 #		40M§Δ			EM	TO61	
84	1726-0810	854m	150 Ø	§J	10	5.0	90	7.0	80 ☑	10m#	4.0Ø	10	20 #		40M§Δ			EM	TO61	
85	1726-1005	854m	150 Ø	§J	10	5.0	110	7.0	100 ☑	10m#	4.0Ø	5.0	15 #		40M§Δ			EM	TO61	
86	1726-1010	854m	150 Ø	§J	10	5.0	110	7.0	100 ☑	10m#	4.0Ø	10	20 #		40M§Δ			EM	TO61	
87	1726-1205	854m	150 Ø	§J	10	5.0	130	7.0	120 ☑	10m#	4.0Ø	5.0	15 #		40M§Δ			EM	TO61	
88	1726-1210	854m	150 Ø	§J	10	5.0	130	7.0	120 ☑	10m#	4.0Ø	10	20 #		40M§Δ			EM	TO61	
89	1726-1405	854m	150 Ø	§J	10	5.0	150	7.0	140 ☑	10m#	4.0Ø	5.0	15 #		40M§Δ			EM	TO61	
90	1726-1410	854m	150 Ø	§J	10	5.0	150	7.0	140 ☑	10m#	4.0Ø	10	20 #		40M§Δ			EM	TO61	
91	1726-1605	854m	150 Ø	§J	10	5.0	170	7.0	160 ☑	10m#	4.0Ø	5.0	20 #		30M§Δ			EM	TO61	
92	1726-1610	854m	150 Ø	§J	10	5.0	170	7.0	160 ☑	10m#	4.0Ø	10	20 #		30M§Δ			EM	TO61	
93	1726-1805	854m	150 Ø	§J	10	5.0	190	7.0	180 ☑	10m#	4.0Ø	5.0	20 #		30M§Δ			EM	TO61	
94	1726-1810	854m	150 Ø	§J	10	5.0	190	7.0	180 ☑	10m#	4.0Ø	10	20 #		30M§Δ			EM	TO61	
95	1743-0620†	854m§	85 Ø	§J	40	10	60	7.0	60 ☑	5.0m#	2.5Ø	20	20 #		30M§Δ		450 ØØ	E	TO3	CØ
96	1743-0810†	854m§	85 Ø	§J	40	10	80	7.0	80 ☑	5.0m#	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
97	1743-0830†	854m§	85 Ø	§J	40	10	80	7.0	80 ☑	5.0m#	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
98	1743-1020†	854m§	85 Ø	§J	40	10	100	7.0	100 ☑	5.0m#	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
99	1743-1210†	854m§	85 Ø	§J	40	10	120	7.0	120 ☑	5.0m#	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
100	1743-1230†	854m§	85 Ø	§J	40	10	120	7.0	120 ☑	5.0m#	3.0Ø	30	20 #		30M§Δ		500nØ☑	E	TO3	CØ
101	1743-1420†	854m§	85 Ø	§J	40	10	140	7.0	140 ☑	5.0m#	2.5Ø	20	20 #		30M§Δ		450nØ☑	E	TO3	CØ
102	1743-1610†	854m§	85 Ø	§J	40	10	160	7.0	160 ☑	5.0m#	2.0Ø	10	20 #		30M§Δ		300nØ☑	E	TO3	CØ
103	1743-1630†	854m§	150 Ø	§J	40 #	10 #	160	7.0	160 ☑	5.0m#	3.0Ø	30	20 #		30M§Δ		500nØ☑	EM	TO3	CØ
104	1763-0415	854m	150 Ø	§J	25	10	50	7.0	40 ☑	20m#	4.0Ø	15	20 #		40M§Δ			EM	TO3	
105	1763-0420	854m	150 Ø	§J	25	10	50	7.0	40 ☑	20m#	4.0Ø	20	20 #		40M§Δ			EM	TO3	
106	1763-0425	854m	150 Ø	§J	25	10	50	7.0	40 ☑	20m#	4.0Ø	25	10 #		40M§Δ			EM	TO3	
107	1763-0615	854m	150 Ø	§J	25	10	70	7.0	60 ☑	20m#	4.0Ø	15	20 #		40M§Δ			EM	TO3	
108	1763-0625	854m	150 Ø	§J	25	10	70	7.0	60 ☑	20m#	4.0Ø	25	10 #		40M§Δ			EM	TO3	
109	1763-0815	854m	150 Ø	§J	25	10	90	7.0	80 ☑	20m#	4.0Ø	15	20 #		40M§Δ			EM	TO3	
110	1763-0825	854m	150 Ø	§J	25	10	90	7.0	80 ☑	20m#	4.0Ø	25	10 #		40M§Δ			EM	TO3	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MT AEXMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC-TURE	DWG #Y200 s/a TO200 Ser.	LEAD CONF.
1	1763-1015	854m	150 Ø	§J	25	10	110	7.0	100 ☑	20m#	4.0Ø	15	20 #		40M§△			EM	TO3	
2	1763-1025	854m	150 Ø	§J	25	10	110	7.0	100 ☑	20m#	4.0Ø	25	10 #		40M§△			EM	TO3	
3	1763-1215	854m	150 Ø	§J	25	10	130	7.0	120 ☑	20m#	4.0Ø	15	20 #		40M§△			EM	TO3	
4	1763-1225	854m	150 Ø	§J	25	10	130	7.0	120 ☑	20m#	4.0Ø	25	10 #		40M§△			EM	TO3	
5	1763-1415	854m	150 Ø	§J	25	10	150	7.0	140 ☑	20m#	4.0Ø	15	20 #		40M§△			EM	TO3	
6	1763-1425	854m	150 Ø	§J	30	10	150	7.0	140 ☑	20m#	4.0Ø	25	10 #		40M§△			EM	TO3	
7	1763-1615	854m	150 Ø	§J	30	10	170	7.0	160 ☑	20m#	4.0Ø	15	20 #		30M§△			EM	TO3	
8	1763-1625	854m	150 Ø	§J	30	10	170	7.0	160 ☑	20m#	4.0Ø	25	20 #		30M§△			EM	TO3	
9	1763-1630	854m$	85 $	§J	40 #	5.0	160	7.0	160 ☑	500u#	3.0Ø	30	20 #		30M§△		500nØØ	EM△	TO3	
10	1763-1815	854m	150 Ø	§J	30	10	190	7.0	180 ☑	20m#	4.0Ø	15	20 #		30M§△			EM	TO3	
11	1763-1820†	854m$	85 Ø	§J	40 #†	10	180 †	7.0†	180 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØØ	E	TO3	CØ
12	1763-1830	854m$	85 Ø	§J	40 #	5.0	180	7.0	180 ☑	500m#	3.0Ø	30	20 #		30M§△		500nØØ	EM△	TO3	CØ
13	1768-1615	854m	150 Ø	§J	30	10	170	7.0	160 ☑	20m#	4.0Ø	15	20 #		30M§△			EM	TO63	
14	1768-1625	854m	150 Ø	§J	30	10	170	7.0	160 ☑	20m#	4.0Ø	25	20 #		30M§△			EM	TO63	
15	1768-1815	854m	150 Ø	§J	30	10	190	7.0	180 ☑	20m#	4.0Ø	15	20 #		30M§△			EM	TO63	
16	1843-3510†	854m$	85 Ø	§J	30 #	10 #	350	7.0	350 ☑	3.0mØ	5.0Ø	10	15 #		25M§△		500nØ	EM	TO3	CØ
17	1843-3520†	854m$	85 Ø	§J	30 #	10 #	350	7.0	350 ☑	3.0mØ	5.0Ø	20	10 #		25M§△		500nØ	EM	TO3	CØ
18	1843-3705†	854m$	85 Ø	§J	30 #	10 #	375	7.0	375 ☑	3.0mØ	5.0Ø	5.0	20 #		25M§△		500nØ	EM	TO3	CØ
19	1843-3710†	854m$	85 Ø	§J	30 #	10 #	375	7.0	375 ☑	3.0mØ	5.0Ø	10	15 #		25M§△		500nØ	EM	TO3	CØ
20	1843-3720†	854m$	85 Ø	§J	30 #	10 #	375	7.0	375 ☑	3.0mØ	5.0Ø	20	10 #		25M§△		500nØ	EM	TO3	CØ
21	B177000	854m	150 Ø	§J	30		100	7.0	80	5.0m	4.0Ø	10	15	60 #				DM	TO3	CØ
22	RCA508	854m	150 Ø	§J	16	4.0	160	7.0	140	2.0mØ♦	4.0Ø	8.0	15	60 #	200k§△			H△	TO3	CØ
23#	ZT2015	854m	150 Ø	§C	10	6.0	100	10	50	50uØ	4.0Ø	5.0	15	50	25k	250m	4.0uØ	D△	TO36	Ø
24#	ZT2016	854m	150 Ø	§C	10	6.0	130	10	65	50uØ	4.0Ø	5.0	15	50	25k	250m	4.0uØ	D△	TO36	Ø
25	SCE321	857m	150 Ø	§A	10	4.0		4.0	100 ☑	1.0m#	4.0Ø	4.0	20	100		250m		DME	TO3	CØ
26	A580-0402†	860m	175 Ø	§J	10 †	3.0		25†	40 ☑	30m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
27	A580-0403†	860m	175 Ø	§J	10 †	3.0		25†	40 ☑	30m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
28	A580-0405†	860m	175 Ø	§J	10 †	3.0		25†	40 ☑	30m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
29	A580-0802†	860m	175 Ø	§J	10 †	3.0		25†	80 ☑	60m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
30	A580-0803†	860m	175 Ø	§J	10 †	3.0		25†	80 ☑	60m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
31	A580-0805†	860m	175 Ø	§J	10 †	3.0		25†	80 ☑	60m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
32	A580-1202†	860m	175 Ø	§J	10 †	3.0		25†	120 ☑	90m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
33	A580-1203†	860m	175 Ø	§J	10 †	3.0		25†	120 ☑	90m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
34	A580-1205†	860m	175 Ø	§J	10 †	3.0		25†	120 ☑	90m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
35	A580-1602†	860m	175 Ø	§J	10 †	3.0		25†	160 ☑	120m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
36	A580-1603†	860m	175 Ø	§J	10 †	3.0		25†	160 ☑	120m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
37	A580-1605†	860m	175 Ø	§J	10 †	3.0		25†	160 ☑	120m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
38	A580-1802†	860m	175 Ø	§J	10 †	3.0		25†	180 ☑	135m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
39	A580-1803†	860m	175 Ø	§J	10 †	3.0		25†	180 ☑	135m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
40	A580-1805†	860m	175 Ø	§J	10 †	3.0		25†	180 ☑	135m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
41	A580-2002†	860m	175 Ø	§J	10 †	3.0		25†	200 ☑	150m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
42	A580-2003†	860m	175 Ø	§J	10 †	3.0		25†	200 ☑	150m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
43	A580-2005†	860m	175 Ø	§J	10 †	3.0		25†	200 ☑	150m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
44	A580-2202†	860m	175 Ø	§J	10 †	3.0		25†	220 ☑	165m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
45	A580-2203†	860m	175 Ø	§J	10 †	3.0		25†	220 ☑	165m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
46	A580-2205†	860m	175 Ø	§J	10 †	3.0		25†	220 ☑	165m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
47	A580-2402†	860m	175 Ø	§J	10 †	3.0		25†	240 ☑	180m△♦	4.0Ø	2.0	15 #		250k§△		10u☑	A	TO3	CØ
48	A580-2403†	860m	175 Ø	§J	10 †	3.0		25†	240 ☑	180m△♦	4.0Ø	3.0	15 #		250k§△		10u☑	A	TO3	CØ
49	A580-2405†	860m	175 Ø	§J	10 †	3.0		25†	240 ☑	180m△♦	4.0Ø	5.0	15 #		250k§△		10u☑	A	TO3	CØ
50	SC0328	880m	150 Ø	§J	20 †	7.5	60 †	5.0†	60 ☑	1.5m§♦	4.0Ø	10	15	90 #	1.0M§△			DME	TO3	CØ
51	3TE120	961m	120	§J	12		90	4.0	80	10uØ	7.0Ø	10	10	60	200M§	200m		PE	TO3	
52#	2SC81	1.0	125 Ø	§J	5.0	5.0 Ø	50	10	40 Ø	10m	10Ø	1.0	10 Ø	150 Ø	5.0Mt	1.5		ME	MT3	
53#	2SC82	1.0	125 Ø	§J	5.0	5.0 Ø	100	10	80 Ø	10m	10Ø	1.0	10 Ø	150 Ø	5.0Mt	1.5		ME	MT3	
54#	2SC83	1.0	125 Ø	§J	5.0	5.0 Ø	150	10	120 Ø	10m	10Ø	1.0	10 Ø	150 Ø	5.0Mt	1.5		ME	MT3	
55	1743-1820†	1.0	175	§A	30	10	190	7.0	180 ☑		4.0Ø	20	20	100 #	30M§△		600nØ	E	TO3	CØ
56	1743-1830†	1.0	175	§A	30	10	190	7.0	180 ☑		4.0Ø	30	20	100 #	30M§△		700nØ	E	TO3	CØ
57	1748-1630†	1.0 $	175 Ø	§J	50 #	10 #	160	7.0	160 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØØ	EM	TO63	A
58	1748-1820†	1.0	200	§J	20 †	10	190 †	7.0†	180		4.0Ø	20	20	100 #	30M§△		600nØ	E	TO63	A
59	1748-1830†	1.0 $	175 Ø	§J	40 #	10 #	180	7.0	180 ☑	5.0m#	3.0Ø	30	20 #		30M§△		500nØØ	EM	TO63	A
60	1768-1630	1.0 $	100 $	§J	40 #	5.0	160	7.0	160 ☑	500u#	3.0Ø	30	20 #		30M§△		500nØØ	EM△	TO63	
61	1768-1820†	1.0 $	100 Ø	§J	40 #†	10	180 †	7.0†	180 ☑	500u#♦	2.5Ø	20	20 #		30M§△		450nØØ	E	TO63	A
62	1768-1830	1.0 $	100 Ø	§J	40 #	5.0	180	7.0	180 ☑	500m#	3.0Ø	30	20 #		30M§△		500nØØ	EM△	TO63	
63#	DT6103	1.0	50 Ø	♦J	5.0	1.0	200	4.0	135	10m	5.0Ø	5.0	10	50	500k§△	500m	1.0u		TO36	
64#	DT6104	1.0	50 Ø	♦J	5.0	1.0	300	4.0	200	10m	5.0Ø	5.0	10	50	500k§△	500m	1.0u		TO36	
65	MHT8002	1.0 $	100 Ø	§J	20		80	8.0	60	100uØ	5.0Ø	10	40	120 #	20M§△			D	TO63	Ø
66	MHT8003	1.0 $	100 Ø	§J	20		100	8.0	80	100uØ	5.0Ø	10	40	120 #	20M§△			D	TO63	Ø
67	MHT8012	1.0 $	100 Ø	§J	20		80	8.0	60	10uØ	5.0Ø	10	20	60 #	25M§△			PL	TO63	Ø
68	MHT8013	1.0 $	100 Ø	§J	20		100	8.0	80	10uØ	5.0Ø	10	20	60 #	25M§△			PL	TO63	Ø
69	MHT8015	1.0 $	100 Ø	§J	20		80	8.0	60	10uØ	5.0Ø	10	40	120 #	25M§△			PL	TO63	Ø
70	MHT8016	1.0 $	100 Ø	§J	20		100	8.0	80	10uØ	5.0Ø	10	40	120 #	25M§△			PL	TO63	Ø
71	MHT8045	1.0 $	100 Ø	§J	20		40	5.0	25	10uØ	5.0Ø	10	40 #					PL	TO63	AØ
72	MHT8070	1.0 $	100 Ø	§J	20		80	8.0	60	10uØ	5.0Ø	10	100 #		25M§△			PL	TO63	AØ
73	MHT8071	1.0 $	100 Ø	§J	20		100	8.0	80	10uØ	5.0Ø	10	100 #		25M§△			PL	TO63	AØ
74	MHT8301	1.0 $	100 Ø	§J	30		80	8.0	60	10uØ	5.0Ø	10	40	120 #	25M§△			PL	TO63	AØ
75	MHT8302	1.0 $	100 Ø	§J	30		100	8.0	80	10uØ	5.0Ø	10	40	120 #	25M§△			PL	TO63	AØ
76	MHT8303	1.0 $	100 Ø	§J	30		80	8.0	60	10uØ	5.0Ø	10	100 #		25M§△			PL	TO63	AØ
77	MHT8304	1.0 $	100 Ø	§J	30		100	8.0	80	10uØ	5.0Ø	10	100 #		25M§△			PL	TO63	AØ
78	MJ8400	1.0	125 Ø	§J	4.0			5.0	600	1.0m§						666m	1.1u#☑	△	TO3	CØ
79	PT900	1.0	125	§J	15	5.0	80	4.0	50 §	40mØ	2.0Ø	10	10 Ø		50Mt	250m	50n	ME△	MT3	
80	PT900-1	1.0		§J	10	5.0	80	5.0	50 §	250m	2.0Ø	10	10 Ø		30Mt	.20	.05u	ME△	MT16	
81	PT6905†	1.0	175 Ø	§A			325	6.0	300		5.0Ø	10	15	75	100M§	100m▼			TO63	
82	PT6905A†	1.0	175 Ø	§J	30		325	6.0	300	5.0mØ	5.0Ø	10	15	75	100M§△	100m	500nØØ	PL	TO63	AØ
83	PT6905B†	1.0	175 Ø	§J	30		325	6.0	300	5.0mØ	5.0Ø	10	15	75	100M§△	100m	500nØØ	PL	TO61	A
84	PT6905C†	1.0	175 Ø	§J	30		325	6.0	300	5.0mØ	5.0Ø	10	15	75	100M§△	100m	500nØØ	PL	TO3	CØ
85	SDT1000	1.0	100		10	5.0	400	5.0	400	2.0m	5.0	1.0	30	90	200k				TO3	
86	ST7400	1.0	100	§J	20		120	10	100	500u§	6.0Ø	10	20	100	10k§△	100m		PL	TO63	Ø
87	STC1750	1.0	200 Ø	§J	15	4.5		10	200	2.0m	4.0	7.5	10	50		200m		ME	MT18	
88	STC2220	1.0 $	200 Ø	§J	20	10	80	10	80	2.0m§	3.0Ø	10	10	50 #		150m	1.0uØ	D	MD21	Ø
89	STC2221	1.0 $	200 Ø	§J	20	10	100	10	100	2.0m§	3.0Ø	10	10	50 #		150m	1.0uØ	D	MD21	Ø
90	STC2222	1.0 $	200 Ø	§J	20	10	150	10	150	2.0m§	3.0Ø	10	10	50 #		150m	1.0uØ	D	MD21	Ø
91	STC2223	1.0 $	200 Ø	§J	20	10	200	10	200	2.0m§	3.0Ø	10	10	50 #		150m	1.0uØ	D	MD21	Ø
92	STC2224	1.0	200 Ø	§J	25	10	80	10	80	2.0m§	3.0Ø	15	10	50 #		100m	6.0uØ	D	MD21	Ø
93	STC2225	1.0	200 Ø	§J	25	10	100	10	100	2.0m§	3.0Ø	15	10	50 #		100m	6.0uØ	D	MD21	Ø
94	STC2226	1.0	200 Ø	§J	25	10	150	10	150	2.0m§	3.0Ø	15	10	50 #		100m	6.0uØ	D	MD21	Ø
95	STC2227	1.0	200 Ø	§J	25	10	200	10	200	2.0m§	3.0Ø	15	10	50 #		100m	6.0uØ	D	MD21	Ø
96	STC2228	1.0 $	200 Ø	§J	30	10	80	10	80	2.0m§	3.0Ø	20	10	40 #		80m	6.0uØ	D	MD21	Ø
97	STC2229	1.0 $	200 Ø	§J	30	10	100	10	100	2.0m§	3.0Ø	20	10	40 #		80m	6.0uØ	D	MD21	Ø
98	STC2230	1.0 $	200 Ø	§J	30	10	150	10	150	2.0m§	3.0Ø	20	10	40 #		80m	6.0uØ	D	MD21	Ø
99	STC2231	1.0 $	200 Ø	§J	30	10	200	10	200	2.0m§	3.0Ø	20	10	40 #		80m	6.0uØ	D	MD21	
100	STC3706	1.0 $	200 Ø	§J	30	10	200	10	200	2.0m§	3.0Ø	20	10	40 #		80m	6.0uØ	D	MT18	
101	USAF524ES080M	1.0 $		§J	20	5.0	160	8.0	100	7.5uØ	3.0Ø	15	27	65 #	20M§△	80m	500nØ	PLE	MT48	
102#	XT2A	1.0 §	50 Ø	♦J	5.0		200	5.0	135	10m	5.0	5.0	10	50	75k	100m▼		D	TO36	
103#	XT2B	1.0 §	50 Ø	♦J	5.0		300	5.0	200	10m	5.0	5.0	10	50	75k	100m▼		D	TO36	
104#	XT2C	1.0 §	50 Ø	♦J	5.0		400	5.0	265	10m	5.0	5.0	10	50	75k	100m▼		D	TO36	
105#	XT2D	1.0 §	50 Ø	♦J	5.0		500	5.0	350	10m	5.0	5.0	10	50	75k	100m▼		D	TO36	
106	1561-1615	1.1	150 Ø	§C	30	7.0	160	7.0	160	2.0 #	4.0Ø	15	15	60	800k§△	130m			TO3	
107	1561A608	1.1	150 Ø	§C	30	7.0	60	7.0	60	2.0 #	4.0Ø	8.0	15	60	800k§△	180m			TO3	
108	1561A615	1.1	150 Ø	§C	30	7.0	60	7.0	60	2.0 #	4.0Ø	15	15	60	800k§△	130m			TO3	
109	STC1094	1.1	200 Ø	§J	20	4.5	90	10	90	15m	4.0Ø	10	7.5			3.0		D	TO3	CØ

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	[2] TYPE No.	[1] MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG # Y200 s/a TO200 Ser.	L C E O A D D E
1	153-24†	1.3	200 Ø	§J	7.5	3.0	265	25	240	10m#	4.0Ø	1.5	15			866m	3.0uØ		MT58	
2	153-26†	1.3	200 Ø	§J	7.5	3.0	285	25	260	10m#	4.0Ø	1.5	15			866m	3.0uØ		MT58	
3	153-28†	1.3	200 Ø	§J	7.5	3.0	305	25	280	10m#	4.0Ø	1.5	15			866m	3.0uØ		MT58	
4	153-30†	1.3	200 Ø	§J	7.5	3.0	325	25	300	10m#	4.0Ø	1.5	15			866m	3.0uØ		MT58	
5	154-24†	1.3	200 Ø	§J	7.5	3.0	265	25	240	10m#	4.0Ø	1.5	25			833m	3.0uØ		MT58	
6	154-26†	1.3	200 Ø	§J	7.5	3.0	285	25	260	10m#	4.0Ø	1.5	25			833m	3.0uØ		MT58	
7	154-28†	1.3	200 Ø	§J	7.5	3.0	305	25	280	10m#	4.0Ø	1.5	25			833m	3.0uØ		MT58	
8	154-30†	1.3	200 Ø	§J	7.5	3.0	325	25	300	10m#	4.0Ø	1.5	25			833m	3.0uØ		MT58	
9	DTS103†	1.3	125 Ø	§J	15	5.0	80	5.0	60	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
10	DTS104†	1.3	125 Ø	§J	15	5.0	80	5.0	60	250u△	1.5Ø	5.0	50	120	4.0M§△	150m	550n	DM	TO3	CØ
11	DTS105†	1.3	125 Ø	§J	15	5.0	100	5.0	80	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
12	DTS106†	1.3	125 Ø	§J	15	5.0	110	5.0	90	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
13	DTS107†	1.3	125 Ø	§J	15	5.0	120	5.0	100	250u△	1.5Ø	5.0	20	55	4.0M§△	180m	550n	DM	TO3	CØ
14	DTS108	1.3	125	§J	15	5.0		5.0	100	250u△	1.5Ø	5.0	50	120	4.0M§△	150m	550n	DM△	TO3	CØ
15	DTS3704	1.3		§J	2.0	.50	200	5.0	200 Ø		5.0Ø	.50	20	80	115k	1.6			TO41	
16	DTS3704A	1.3		§J	2.0	.50	300	5.0	300 Ø		5.0Ø	.50	20	80	115k	1.6			TO41	
17	DTS3704B	1.3		§J	2.0	.50	400	5.0	335 Ø		5.0Ø	.50	20	80	115k	1.6			TO41	
18	DTS3705	1.3			3.5		200	5.0	200	.50m		1.0	25	75	110k	.80			TO3	
19	DTS3705A	1.3			3.5		300	5.0	300	.50m		1.0	25	75	110k	.80			TO3	
20	DTS3705B	1.3			3.5		400	5.0	400	.50m		1.0	25	75	110k	.80			TO3	
21	SDT2101	1.3		#J	150		10		5.0			150	40						MT41	
22	SDT2110	1.3		#J	150		10		5.0			150	40 Ø		450k§				MT41a	
23	SDT2111	1.3		#J	175		10		5.0			175	40 Ø		450k§				MT41a	
24	SDT2112	1.3		#J	200		10		5.0			200	40 Ø		450k§				MT41a	
25	SDT2150	1.3		#J	150		10		5.0			150	40 Ø		450k§				R121	
26	SDT2151	1.3		#J	175		10		5.0			175	40 Ø		450k§				R121	
27	SDT2152	1.3		#J	200		10		5.0			200	40 Ø		450k§				R121	
28	2N1016B/M	1.4 *	150 Ø	§J	7.5	5.0	100	25	100	1.0m	4.0Ø	5.0	10	35	30k	500m	6.0uØ	FΔ	MT1	
29	2N1016C/M	1.4 *	150 Ø	§J	7.5	5.0	150	25	150	1.0m	4.0Ø	5.0	10	35	30k	500m	6.0uØ	FΔ	MT1	
30	2N2584†	1.4 *	150 Ø	§A	5.0	1.0	600	5.0	600	5.0m#	5.0Ø	5.0	10	40	30kΔ	140m	6.0uØ		TO36	CØ
31	2N2585†	1.4 *	150 Ø	§A	10	2.0	600	5.0	600	5.0m#	5.0Ø	5.0	25	65	30kΔ	1.0	6.0uØ		TO36	CØ
32	151-24†	1.4	100 Ø	§J	6.0	3.0	265	25	240	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØØ	F	MT1	
33	151-26†	1.4	100 Ø	§J	6.0	3.0	285	25	260	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØØ	F	MT1	
34	151-28†	1.4	100 Ø	§J	6.0	3.0	305	25	280	10m#	4.0Ø	1.5	22 Ø			870m	7.0uØØ	F	MT1	A
35	152-24†	1.4	100 Ø	§J	6.0	3.0	265	25	240	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØØ	F	MT1	
36	152-26†	1.4	100 Ø	§J	6.0	3.0	285	25	260	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØØ	F	MT1	A
37	152-28†	1.4	100 Ø	§J	6.0	3.0	305	25	280	10m#	4.0Ø	1.5	37 Ø			830m	7.0uØØ	F	MT1	A
38	1776-0440†	1.4 $	150 Ø	§J	75 #†	15	40 †	7.0†	40 Ø	2.0m#♦	3.0Ø	40	15 #		20M§△		500nØØ	E	TO63	A
39	1776-0460†	1.4 $	150 Ø	§J	75 #†	15	60 †	7.0†	60 Ø	2.0m#♦	3.0Ø	60	15 #		20M§△		600nØØ	E	TO63	A
40	1776-1860†	1.4 $	150 Ø	§J	75 #	15 #	180	7.0	180 Ø	2.0m#	3.0Ø	60	15		20M§△	25m	600nØØ	EM	TO63	A
41	AMF227	1.4 *	150 Ø	§C	7.5			.50	30 Ø		4.0Ø	2.0	10		20k	750m		ME	MT1	
42	AMF227A	1.4 *	150 Ø	§C	7.5			.50	60 Ø		4.0Ø	2.0	10		20k	750m		ME	MT1	
43	AMF227B	1.4 *	150 Ø	§C	7.5			.50	100 Ø		4.0Ø	2.0	10		20k	750m		ME	MT1	
44	AMF227C	1.4 *	150 Ø	§C	7.5			.50	150 Ø		4.0Ø	2.0	10		20k	750m		ME	MT1	
45	AMF228	1.4 *	150 Ø	§C	7.5			.50	30 Ø		4.0Ø	5.0	10		20k	500m		ME	MT1	
46	AMF228A	1.4 *	150 Ø	§C	7.5			.50	60 Ø		4.0Ø	5.0	10		20k	500m		ME	MT1	
47	AMF228B	1.4 *	150 Ø	§C	7.5			.50	100 Ø		4.0Ø	5.0	10		20k	500m		ME	MT1	
48	AMF228C	1.4 *	150 Ø	§C	7.5			.50	150 Ø		4.0Ø	5.0	10		20k	500m		ME	MT1	
49	AMF229	1.4 *	150 Ø	§C	4.0		30	.50	30 Ø		4.0Ø	1.0	10		20k	1.0		ME	MT1	
50	AMF229A	1.4 *	150 Ø	§C	4.0		60	.50	60 Ø		4.0Ø	1.0	10		20k	1.0		ME	MT1	
51	AMF229B	1.4 *	150 Ø	§C	4.0		100	.50	100 Ø		4.0Ø	1.0	10		20k	1.0		ME	MT1	
52	AMF229C	1.4 *	150 Ø	§C	4.0		150	.50	150 Ø		4.0Ø	1.0	10		20k	1.0		ME	MT1	
53	BSC1015	1.4 *	150 Ø	§J	7.5	5.0		10	30 #		4.0Ø	2.0	10		20k	750m		DM	MT1	
54	BSC1015A	1.4 *	150 Ø	§J	7.5	5.0		10	60 #		4.0Ø	2.0	10		20k	750m		DM	MT1	
55	BSC1015B	1.4 *	150 Ø	§J	7.5	5.0		10	100 #		4.0Ø	2.0	10		20k	750m		DM	MT1	
56	BSC1016	1.4 *	150 Ø	§J	7.5	5.0		10	30 #		4.0Ø	5.0	10		20k	500m		DM	MT1	
57	BSC1016A	1.4 *	150 Ø	§J	7.5	5.0		10	60 #		4.0Ø	5.0	10		20k	500m		DM	MT1	
58	BSC1016B	1.4 *	150 Ø	§J	7.5	5.0		10	100 #		4.0Ø	5.0	10		20k	500m		DM	MT1	
59	SDT2205	1.4	121 Ø	♦J	50	10	10	5.0	5.0	5.0m	1.0Ø	50	40 #	120 Ø	450k	3.0m		A	MT23	
60	SDT2305	1.4	121 Ø	♦J	50	10	10	5.0	5.0	5.0m	1.0Ø	50	40 #	120 Ø	450k	3.0m		A	TO36	CØ
61	SEC1477	1.4		§			50	9.0	50 §			.50				2.0			MT1	
62	SEC1478	1.4		§			100	9.0	100 §			.50				2.0			MT1	
63	SEC1479	1.4		§			50	9.0	50 §			2.0				2.0			MT1	
64	SEC1480	1.4		§			100	9.0	100 §			2.0				2.0			MT1	
65	STC1015	1.4	150 Ø	§J	7.5	5.0	30	10	30	10m	4.0Ø	2.0	10		2.5M†	750m	900n	D	MT1	
66	STC1015A	1.4	150 Ø	§J	7.5	5.0	60	10	60	10m	4.0Ø	2.0	10		2.5M†	750m	900n	D	MT1	
67	STC1015B	1.4	150 Ø	§J	7.5	5.0	100	10	100	10m	4.0Ø	2.0	10		2.5M†	750m	900n	D	MT1	
68	STC1015C	1.4	150 Ø	§J	7.5	5.0	150	10	150		4.0Ø	2.0	10		2.5M†	750m	900n	D	MT1	
69	STC1015D	1.4	150 Ø	§J	7.5	5.0	200	10	200		4.0Ø	2.0	10		2.5M†	750m	900n	D	MT1	
70	STC1015E	1.4	150 Ø	§J	7.5	5.0	250	10	250		4.0Ø	5.0	10		2.5M†	500m	900n	D	MT1	
71	STC1016	1.4	150 Ø	§J	7.5	5.0	30	10	30		4.0Ø	5.0	10		2.5M†	500m	900n	D	MT1	
72	STC1016A	1.4	150 Ø	§J	7.5	5.0	60	10	60		4.0Ø	5.0	10		2.5M†	500m	900n	D	MT1	
73	STC1016B	1.4	150 Ø	§J	7.5	5.0	100	10	100		4.0Ø	5.0	10		2.5M†	500m	900n	D	MT1	
74	STC1016C	1.4	150 Ø	§J	7.5	5.0	150	10	150		4.0Ø	5.0	10		2.5M†	500m	900n	D	MT1	
75	STC1016D	1.4	150 Ø	§J	7.5	5.0	200	10	200		4.0Ø	5.0	10		2.5M†	500m	900n	D	MT1	
76	STC1016E	1.4	150 Ø	§J	7.5	5.0	250	10	250		4.0Ø	5.0	10		2.5M†	500m	900n	D	MT1	
77	STC1400	1.4	150 Ø	§J	5.0		60	6.0	40	1.0m	4.0Ø	2.0	15	60	2.5M†	1.5	900n	D	MT1	
78#	STX5/3010	1.4 Ø		§	5.0		30	2.0	30	5.0m	15	5.0	10	25	10M†					
79#	STX5/3025	1.4 Ø		§	5.0		30	2.0	30	5.0m	15	5.0	25		10M†					
80#	STX5/5010	1.4 Ø		§	5.0		50	2.0	50	5.0mØ	15	5.0	10	25	10M†					
81#	STX5/5025	1.4 Ø		§	5.0		50	2.0	50	5.0m	15	5.0	25		10M†					
82#	STX5/6010	1.4 Ø		§	5.0		60	2.0	60	5.0m	15	5.0	10	25	10M†					
83#	STX5/6025	1.4 Ø		§	5.0		60	2.0	60	5.0m	15	5.0	25		10M†					
84#	STX5/7010	1.4 Ø		§	5.0		70	2.0	70	5.0m	15	5.0	10	25	10M†					
85#	STX5/7025	1.4 Ø		§	5.0		70	2.0	70	5.0m	15	5.0	25		10M†					
86	1561A603	1.5	120 Ø	§C	15	7.0	60	7.0	60	1.0 #	10Ø	3.0	18	55	800 §△	330m			TO3	
87	1756-1860†	1.5 $	150 Ø	§J	75 #	15	180	7.0	180 Ø	5.0m#	3.0Ø	60	15 #		20M§△		600nØØ	EM	TO63	
88	SPT9020	1.5	85	§J	10	4.0	350	10	250	100u#	5.0Ø	1.0	80			300m		DΔ		
89	2N1421	1.6	30 Ø	§S	3.0	500m	60	10	60 Ø	10m	5.0Ø	1.0	20	80	10M§△	3.0			MT10	
90	2N1422	1.6	30 Ø	§S	3.0	500m	60	10	60 Ø	10m	5.0Ø	1.0	20	80	10M§△	2.0			TO3	Ø
91#	L10A	1.6	200		10	10	50	4.0	30	10m	6.0	10	10	50	500k	.10	.80			
92#	L10B	1.6	200		10	10	100	4.0	60	10m	6.0	10	10	50	500k	.10	.80			
93#	L10C	1.6	200		10	10	200	4.0	140	10m	6.0	10	10	50	500k	.10	.80			
94#	L10D	1.6	200		10	10	300	4.0	200	10mØ	6.0	10	10	50	500k	.10	.80			
95#	L20A	1.6	200		20	10	100	4.0	30	10m	6.0	20	10	50	500k	.10	.80			
96#	L20B	1.6	200		20	10	200	4.0	60	10m	6.0	20	10	50	500k	.10	.80			
97#	L20C	1.6	200		20	10	300	4.0	140	10mØ	6.0	20	10	50	500k	.10	.80			
98#	L20D	1.6	200		20	10	400	4.0	200	10m	6.0	20	10	50	500k	.10	.80			
99#	L30A	1.6	200		30	10	50	4.0	30	10m	6.0	30	10	50	500k	.10	.80			
100#	L30B	1.6	200		30	10	100	4.0	60	10m	6.0	30	10	50	500k	.10	.80			
101#	L30C	1.6	200		30	10	200	4.0	140	10m	6.0	30	10	50	500k	.10	.80			
102#	L30D	1.6	200		30	10	300	4.0	200	10mØ	6.0	30	10	50	500k	.10	.80			
103#	SDD320	1.6	20 Ø	§J	2.0		40	6.0	30	500u	15Ø	50m	20 †	35 Ø	30M§△	6.0			TO36	
104	SDT1908	1.6	140 Ø	♦J	60	10	80	30	60	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT23	
105	SDT1909	1.6	140 Ø	♦J	60	10	60	30	45	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT23	
106	SDT1910	1.6	140 Ø	♦J	60	10	40	20	30	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT23	
107	SDT2008	1.6	140 Ø	♦J	60	10	80	30	60	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT22	
108	SDT2009	1.6	140 Ø	♦J	60	10	60	30	45	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT22	
109	SDT2010	1.6	140 Ø	♦J	60	10	40	20	30	5.0m	2.0Ø	50	15		340k§	10m	10u	A	MT22	
110	2N5576†	2.0 $	150 Ø	§J	80	20	70	8.0	70 #		4.0Ø	60	10	40 #			15uØØ		MD37	CØ

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	M T A E X M P	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V')	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUC -TURE	DWG #L Y200 s/a TO200 Ser.	C E O A D D E
1	2N5577†	2.0 $	150 Ø	$J	80	20	70	8.0	70 #		4.0Ø	60	10	40 #			15uØØ		MD38	CØ
2	2N5579†	2.0 $	150 Ø	$J	60	15	90	8.0	90 #		3.0Ø	40	10	40 #			10uØ		MD37	CØ
3	2N5580†	2.0 $	150 Ø	$J	60	15	90	8.0	90 #		3.0Ø	40	10	40 #			10uØ		MD38	CØ
4	163-24†	2.0 §	200 Ø	§J	20	7.5	255	15	240	30m#†	4.0Ø	5.0	20 Ø			220m	6.0uØ	F	MT33	AØ
5	163-26†	2.0 §	200 Ø	§J	20	7.5	275	15	260	30m#†	4.0Ø	5.0	20 Ø			220m	6.0uØ	F	MT33	AØ
6	163-28†	2.0 §	200 Ø	§J	20	7.5	295	15	280	30m#†	4.0Ø	5.0	20 Ø			220m	6.0uØ	F	MT33	AØ
7	163-30†	2.0 §	200 Ø	§J	20	7.5	315	15	300	30m#	4.0Ø	5.0	15			220m	6.0uØØ		MT33	AØ
8	164-24†	2.0 §	200 Ø	§J	20	7.5	255	15	240	30m#†	4.0Ø	5.0	42 Ø			200m	6.0uØ	F	MT33	AØ
9	164-26†	2.0 §	200 Ø	§J	20	7.5	275	15	260	30m#†	4.0Ø	5.0	42 Ø			200m	6.0uØ	F	MT33	AØ
10	164-28†	2.0 §	200 Ø	§J	20	7.5	295	15	280	30m#†	4.0Ø	5.0	42 Ø			200m	6.0uØ	F	MT33	AØ
11	164-30†	2.0 §	200 Ø	§J	20	7.5	315	15	300	30m#	4.0Ø	5.0	25			200m	6.0uØØ		MT33	AØ
12	1781-0640	2.0	350 Ø	§J	50	10	70	7.0	60	5.0m#	3.0Ø	40	15		20M§Δ				TO114	
13	1781-0660	2.0	350 Ø	§J	50	10	70	7.0	60	5.0m#	3.0Ø	60	15		20M§Δ				TO114	
14	1781-0840	2.0	350 Ø	§J	50	10	90	7.0	80	5.0m#	3.0Ø	40	15		20M§Δ				TO114	
15	1781-0860	2.0	350 Ø	§J	50	10	90	7.0	80	5.0m#	3.0Ø	60	15		20M§Δ				TO114	
16	1781-1040	2.0	350 Ø	§J	50	10	110	7.0	100	5.0m#	3.0Ø	40	15		20M§Δ				TO114	
17	1781-1060	2.0	350 Ø	§J	50	10	110	7.0	100	5.0m#	3.0Ø	60	15		20M§Δ				TO114	
18	1781-1240	2.0	350 Ø	§J	50	10	130	7.0	120	5.0m#	3.0Ø	40	15		20M§Δ				TO114	
19	1781-1260	2.0	350 Ø	§J	50	10	130	7.0	120	5.0m#	3.0Ø	60	15		20M§Δ				TO114	
20	1781-1440	2.0	350 Ø	§J	50	10	150	7.0	140	5.0m#	3.0Ø	40	15		20M§Δ				TO114	
21	D6C	2.0 $	150 Ø	§J	30		150	15	80		3.0Ø	15	30			50m		D	TO63	AØ
22	DPT121	2.0 §	150 Ø	§J	10	1.0	50	15	50	1.0m#†	6.0Ø	10	1.0k	2.0kØ	10k	350m	10u	FΔ	MT1	
23	DPT122	2.0 §	150 Ø	§J	10	1.0	100	15	100	1.0m#†	6.0Ø	10	1.0k	2.0kØ	10k	350m	10u	FΔ	MT1	
24	DPT123	2.0 §	150 Ø	§J	10	1.0	150	15	150	1.0m#†	6.0Ø	10	1.0k	2.0kØ	10k	350m	10u	FΔ	MT1	
25	DPT124	2.0 §	150 Ø	§J	10	1.0	200	15	200	1.0m#†	6.0Ø	10	1.0k	2.0kØ	10k	350m	10u	FΔ	MT1	
26	MHT8920	2.0	350 Ø	§J	90	20	80	8.0	60	10uØ	5.0Ø	75	10 #		20M§Δ			PL		
27	MHT8921	2.0	350 Ø	§J	90	20	100	8.0	80	10uØ	5.0Ø	75	10 #		20M§Δ			PL		
28	MHT8922	2.0	350 Ø	§J	90	20	120	8.0	100	10uØ	5.0Ø	75	10 #		20M§Δ			PL		
29	MHT8923	2.0	35 Ø	§J	90	20	140	8.0	120	10uØ	5.0Ø	75	10 #		20M§Δ			PL		
30	STC3722	2.0 §	200 Ø	§J	20	7.5	55	10	40		4.0Ø	5.0	15 #			220m		D	MT18	
31	STC3723	2.0 §	200 Ø	§J	20	7.5	65	10	50		4.0Ø	5.0	15 #			220m		D	MT18	
32	STC3724	2.0 §	200 Ø	§J	20	7.5	75	10	60		4.0Ø	5.0	15 #			220m		D	MT18	
33	STC3725	2.0 §	200 Ø	§J	20	7.5	85	10	70		4.0Ø	5.0	15 #			220m		D	MT18	
34	STC3726	2.0 §	200 Ø	§J	20	7.5	95	10	80		4.0Ø	5.0	15 #			220m		D	MT18	
35	STC3727	2.0 §	200 Ø	§J	20	7.5	105	10	90		4.0Ø	5.0	15 #			220m		D	MT18	
36	STC3728	2.0 §	200 Ø	§J	20	7.5	115	10	100		4.0Ø	5.0	15 #			220m		D	MT18	
37	STC3729	2.0 §	200 Ø	§J	20	7.5	135	10	120		4.0Ø	5.0	15 #			220m		D	MT18	
38	STC3730	2.0 §	200 Ø	§J	20	7.5	155	10	140	30m#†	4.0Ø	5.0	15 #			220m		D	MT18	
39	STC3731	2.0 §	200 Ø	§J	20	7.5	175	10	160	30m#†	4.0Ø	5.0	15 #			220m		D	MT18	
40	STC3732	2.0 §	200 Ø	§J	20	7.5	195	10	180	30m#†	4.0Ø	5.0	15 #			220m		D	MT18	
41	STC3733	2.0 §	200 Ø	§J	20	7.5	215	10	200	30m#†	4.0Ø	5.0	15 #			220m		D	MT18	
42	STC3734	2.0 §	200 Ø	§J	20	7.5	55	10	40	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
43	STC3735	2.0 §	200 Ø	§J	20	7.5	65	10	50	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
44	STC3736	2.0 §	200 Ø	§J	20	7.5	75	10	60	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
45	STC3737	2.0 §	200 Ø	§J	20	7.5	85	10	70	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
46	STC3738	2.0 §	200 Ø	§J	20	7.5	95	10	80	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
47	STC3739	2.0 §	200 Ø	§J	20	7.5	105	10	90	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
48	STC3740	2.0 §	200 Ø	§J	20	7.5	115	10	100	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
49	STC3741	2.0 §	200 Ø	§J	20	7.5	135	10	120	30m#†	4.0Ø	5.0	25 #			200m		D	MT18	
50	STC3742	2.0 §	200	§J	20	7.5	155	10	140	30m#†	4.0Ø	5.0	25			200m		D		
51	STC3743	2.0 §	200	§J	20	7.5	175	10	160	30m#†	4.0Ø	5.0	25			200m		D		
52	STC3744	2.0 §	200	§J	20	7.5	195	10	180	30m#†	4.0Ø	5.0	25			200m		D		
53	STC3745	2.0 §	200	§J	20	7.5	215	10	200	30m#†	4.0Ø	5.0	25			200m		D		
54	TIP04†	2.0	2.5	§J	2.5	1.0	400	5.0	300	2.0m§	4.0Ø	1.0	20	100 #	3.0M§Δ	500m	900nØ	DM	TP3	
55	2N1821†	2.1 Ø	250 Ø	§J	15	10	300 †	15	300 #	30m#†	4.0Ø	15	10			100m	20uØ		TO49	C
56	2N1827†	2.1 Ø	250 Ø	§J	20	10	250	15	250 #	30m#	4.0Ø	20	10			75m	20uØ		TO49	C
57	2N1828†	2.1 Ø	250 Ø	§J	20	10	300 †	15	300 #	30m#†	4.0Ø	20	10			75m	20uØ		TO49	C
58	2N1834†	2.2	250 Ø	§J	25	10	250	15	250 #	30m#	4.0Ø	25	10				20uØ		TO49	
59	2N1835†	2.2	250 Ø	§J	25	10	300	15	300 #	30m#	4.0Ø	25	10				20uØ		TO49	
60	2N2121†	2.2	250 Ø	§J	15	10	300	15	300 #	30m#	4.0Ø	15	10				20uØ		TO83	
61	2N2128†	2.2	250 Ø	§J	20	10	300	15	300 #	30m#	4.0Ø	20	10				20uØ		TO83	
62	2N2134†	2.2	250 Ø	§J	25	10	250	15	250 #	30m#	4.0Ø	25	10				20uØ		TO83	
63	2N2135†	2.2	250 Ø	§J	25	10	300	15	300 #	30m#	4.0Ø	25	10				20uØ		TO83	
64#	2SC999	2.5	50	§J	1.5		1.5k	5.0	700 §	10uØ	15Ø	150m	30	120	1.0M†			DME	TO3	C
65#	2SC1005	2.5	50	§J	5.0		1.1k	5.0	600	10uØ	15Ø	4.0	5.0	12 Ø	3.0M§			DM	TO3	CØ
66#	2SC1005A	2.5	50	§J	5.0		1.4k	5.0	600	10uØ	15Ø	4.0	5.0	12 Ø	3.0M§			DM	TO3	CØ
67#	2SD107	2.5	50	§J	5.0		80	10	60	20uØ	5.0Ø	1.0	1.0k	10k	30M†			DPL	TO3	C
68#	2SD108	2.5	50	§J	5.0		80	10	40	2.0uØ	5.0Ø	1.0	1.0k	10k				DPL	TO3	C
69	STC2500	2.8 #	500 Ø	§C	150		100		100		3.0Ø	100	10			20m			MT49	
70	STC2501	2.8 #	500 Ø	§C	150		150		150		3.0Ø	100	10			20m			MT49	
71	STC2502	2.8 #	500 Ø	§C	150		170		170		3.0Ø	100	10			20m			MT49	
72	2N1423	3.5	60 Ø	§S	3.0	500m	60	10	60 Ø	10m	10Ø	2.0	20	80	10M§Δ	2.5			TO3	Ø
73	2N1424	3.5	60 Ø	§S	3.0	500m	60	10	60 Ø	10m	10Ø	2.0	20	80	10M§Δ	2.5			MT10	
74	1401-0205	5.0 §	625 Ø	§J	250	35	30	10	20	2.0m#	4.0Ø	50	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
75	1401-0207	5.0 §	625 Ø	§J	250	35	30	10	20	2.0m#	4.0Ø	75	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
76	1401-0210	5.0 §	625 Ø	§J	250	35	30	10	20	2.0m#	4.0Ø	100	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
77	1401-0215	5.0 §	625 Ø	§J	250	35	30	10	20	2.0m#	4.0Ø	150	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
78	1401-0220	5.0 §	625 Ø	§J	250	35	30	10	20	2.0m#	4.0Ø	200	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
79	1401-0225	5.0 §	625 Ø	§J	250	35	30	10	20	2.0m#	4.0Ø	250	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
80	1401-0405	5.0 §	625 Ø	§J	250	35	50	10	40	2.0m#	4.0Ø	50	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
81	1401-0407	5.0 §	625 Ø	§J	250	35	50	10	40	2.0m#	4.0Ø	75	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
82	1401-0410	5.0 §	625 Ø	§J	250	35	50	10	40	2.0m#	4.0Ø	100	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
83	1401-0605	5.0 §	625 Ø	§J	250	35	70	10	60	2.0m#	4.0Ø	50	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
84	1401-0607	5.0 §	625 Ø	§J	250	35	70	10	60	2.0m#	4.0Ø	75	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
85	1401-0610	5.0 §	625 Ø	§J	250	35	70	10	60	2.0m#	4.0Ø	100	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
86	1401-0620†	5.0 §	625 Ø	§J	250	75		7.0	60 Ø	10m#	4.0Ø	200	10 #		500k§Δ		5.0uØØ	D	MT14a	C
87	1401-0805	5.0 §	625 Ø	§J	250	35	90	10	80	2.0m#	4.0Ø	50	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
88	1401-0807	5.0 §	625 Ø	§J	250	35	90	10	80	2.0m#	4.0Ø	75	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
89	1401-0810	5.0 §	625 Ø	§J	250	35	90	10	80	2.0m#	4.0Ø	100	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
90	1401-1005	5.0 §	625 Ø	§J	250	35	110	10	100	2.0m#	4.0Ø	50	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
91	1401-1007	5.0 §	625 Ø	§J	250	35	110	10	100	2.0m#	4.0Ø	75	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
92	1401-1010	5.0 §	625 Ø	§J	250	35	110	10	100	2.0m#	4.0Ø	100	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
93	1401-1205	5.0 §	625 Ø	§J	250	35	130	10	120	2.0m#	4.0Ø	50	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
94	1401-1207	5.0 §	625 Ø	§J	250	35	130	10	120	2.0m#	4.0Ø	75	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
95	1401-1210	5.0 §	625 Ø	§J	250	35	130	10	120	2.0m#	4.0Ø	100	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
96	1401-1220†	5.0 §	625 Ø	§J	250	35	110	10	120 Ø	2.0m#	4.0Ø	200	10 #		500k§Δ		5.0uØ	D	MT14a	C
97	1401-1225†	5.0 §	625 Ø	§J	250	35	110	10	120 Ø	2.0m#	4.0Ø	200	10 #		500k§Δ		5.0uØ	D	MT14a	C
98	1401-1405	5.0 §	625 Ø	§J	250	35	150	10	140	2.0m#	4.0Ø	50	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
99	1401-1407	5.0 §	625 Ø	§J	250	35	150	10	140	2.0m#	4.0Ø	75	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
100	1401-1410	5.0 §	625 Ø	§J	250	35	150	10	140	2.0m#	4.0Ø	100	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
101	1401-1415	5.0 §	625 Ø	§J	250	35	150	10	140	2.0m#	4.0Ø	150	10 #		500k§Δ		5.0MØ	DΔ	MT14a	C
102	1401-1420	5.0 §	625 Ø	§J	250	35	150	10	140	2.0m#	4.0Ø	200	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
103	1401-1425	5.0 §	625 Ø	§J	250	35	150	10	140	2.0m#	4.0Ø	250	10 #		500k§Δ		5.0uØ	DΔ	MT14a	C
104#	2SD222†	12	10 Ø	§J	1.5	500m	40	7.0	30	10uØ	4.0Ø	500m	20	180	8.0M†	1.0	300n	D	MD25	AØ
105#	2SD223†	12	10 Ø	§J	1.5	500m	80	7.0	50	10uØ	4.0Ø	500m	20	180	8.0M†	1.0	300n	D	MD25	AØ
106#	2SD224†	12	10 Ø	§J	1.5	500m	110	7.0	80	10uØ	4.0Ø	500m	20	180	8.0M†	1.0	300n	D	MD25	AØ
107	TRL2015	13 Ø	2.0	§S	3.0	1.0	200	4.0	200 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
108	TRL2255S	13 Ø	2.0	§S	3.0	1.0	250	4.0	225	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
109	TRL2505	13 Ø	2.0	§S	3.0	1.0	250	4.0	250 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
110	TRL2505S	13 Ø	2.0	§S	3.0	1.0	275	4.0	250	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SILICON NPN - HIGH POWER TRANSISTORS

IN ORDER OF (1) MIN. DERATING FACTOR & (2) TYPE No.

LINE No.	2 TYPE No.	1 MIN. DERATE J to C (W/°C)	MAX Pc FREE AIR @ 25°C (W)	MAX TEMP	ABSOLUTE MAX. RATINGS @25°C Ic (A)	Ib (A)	BVcbo (V)	BVebo (V)	BVceo (V)	MAX. Icbo @ MAX Vcb @25°C (A)	hFE BIAS Vcb (V)	hFE BIAS Ic (A)	hFE MIN	hFE MAX	fae (Hz)	MAX. SAT. RES. (Ω)	tr (s)	STRUCTURE	DWG #L Y200 s/a TO200 Ser.	LEAD CODE
1	TRL2755S	13 Ø	2.0	§S	3.0	1.0	300	4.0	275	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
2	TRL3015	13 Ø	2.0	§S	3.0	1.0	300	4.0	300 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
3	TRL3015S	13 Ø	2.0	§S	3.0	1.0	325	4.0	300	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
4	TRL3505	13 Ø	2.0	§S	3.0	1.0	350	4.0	350 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
5	TRL3515S	13 Ø	2.0	§S	3.0	1.0	375	4.0	350	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	
6	TRL4015	13 Ø	2.0	§S	3.0	1.0	400	4.0	400 §	10u	10Ø	500m	15	35 Ø	20M§Δ		400n	DM	MD14	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	111T2		1.0n	5.0n		4.0n	800m	10 Ø	150mØ	120 Ø	3.0			N-PE	Si	175J	R100	A
2	NS1110		1.0n	5.0n		4.0n	500m							N	Si	175J	TO18	AØ
3	NS1111		1.0n	5.0n		4.0n	500m							N	Si	175J	TO18	AØ
4	NS1116		1.0n	5.0n		4.0n	500m		500mØ					N	Si	175J	TO18	Ø
5#	BSV38		3.0n	6.0n		25nØ	300mØ				25 §	18p§Ø		NPE§	Si	150S	u51	G
6#	BSV38P		3.0n	6.0n		25nØ	150mØ				25 §	18p§Ø		NPE§	Si	150S	u17c	E
7	A197		5.0n	15nØ		20nØ	200m					16p§Ø		N§Ø	Si	150J	TO106	DD
8	A198		5.0n	15nØ		35 Ø	200m					16p§Ø		N§Ø	Si	150J	TO106	DD
9	A199		5.0n	15nØ		50 Ø	200m					16p§Ø		N§Ø	Si	150J	TO106	DD
10	HSC4391		5.0n	15nØ	20nØ	15n	310m				30	14p		N-E§	Si	125S	TO106	DB
11	HSC4392		5.0n	15nØ	35nØ	20n	310m				60	14p		N-E§	Si	125S	TO106	DB
12	HSC4393		5.0n	15nØ	50nØ	30n	310m				100	14p		N-E§	Si	125S	TO106	DB
13	HSC5638		5.0n	5.0n		10n	310m					10p		N-E§	Si	125S	TO106	DB
14	LDF691		5.0n	15nØ	20nØ	15n	360m					16p§Ø		N§Ø	Si	150J	u34	DB
15	LDF692		5.0n	15nØ	35nØ	20n	360m					16p§Ø		N§Ø	Si	150J	u34	DB
16	LDF693		5.0n	15nØ	50nØ	30n	360m					16p§Ø		N§Ø	Si	150J	u34	DB
17	HSC5639		8.0n	10n		20n	310m					10p		N-E§	Si	125S	TO106	DB
18	2N4094		10n	15n		40nØ	1.8 Ø				20 §			N	Si	200S	TO18	DBØ
19	HSC5640		10n	15n		30n	310m					10p		N-E§	Si	125S	TO106	DB
20	RH120		10nØ	25n§		25nØ	200m	5.0 Ø	10mØ	130	200	2.0pØ		N-PL	Si	200J	ZA14	
21	D26B1		12nØ		10nØ	15nØ	90m	1.0 Ø	10mØ	60 #Ø		4.0pØ		N-EP	Si	100J	u40b	
22	D26B2		12nØ		13n	18nØ	90m	1.0 Ø	10mØ	120 #Ø		4.0pØ		N-EP	Si	100J	u40b	
23	2N2967		15nØ		6.0n	15nØ	300m	1.0 Ø	30m	15 Δ	2.0	3.0p		N	Si	200J	TO18	Ø
24	S939		15n	10n	25n	15n		1.5 Ø	1.0 Ø	15 Δ	1.0	10p		N	Si	200J	TO39	
25	V220		15nØ	30n§			300m	100mØ	10mØ	90 Δ	285			N-PE	Si	200J	ZA18	
26	V221		15nØ	30n§			300m	100mØ	10mØ	130 Δ	285			N-PE	Si	200J	ZA18	
27	V222		15nØ	30n§			300m	100mØ	10mØ	160 Δ	285			N-PE	Si	200J	ZA18	
28#	MD501		18n		12n	10n	60m	500mØ	10mØ	20 Δ		5.0pØ		P-MD	Ge		TO1	
29#	MD501B		18n		12n	10n	60m	500mØ	10mØ	20 Δ		3.0pØ		P-MD	Ge		TO1	
30	2N2100A		20n		50n	40n	300m	1.0 Ø	200mØ	30 Δ		20pØ		P	Ge	100S	TO9	
31	2N4092A		20n	15n		60nØ	1.8 Ø				50 §	16p§Ø		N	Si	200S	TO18	DBØ
32	2N4095		20n	15n		60nØ	1.8 Ø				40 §			N	Si	200S	TO18	DBØ
33	MEM400		30n	30n	160n	180n	600m				40 §	25p§		P	Si	200S	TO33	DM
34	MEM401		30n	30n	160n	180n	600m				60 §	25p§		P	Si	200S	TO33	DM
35	MEM402		30n	30n	160n	180n	600m				75 §	30p§		P	Si	200S	TO33	DM
36	2N847		32nØ		25n	33n	200m				1.5			N	Si	175S		
37	2N848		32nØ		25n	33n	200m				1.5			N	Si	175S		
38	2N1763		32nØ		25n	33n	300m				1.5			N	Si	175S		
39	2N1764		32nØ		25n	33n	300m				1.5			N	Si	175S		
40	2N4093A		40n	20n		80nØ	1.8 Ø				80 §	16p§Ø		N	Si	200S	TO18	DBØ
41	CMX740		50nØ†			75nØ†	400m				2.5 §			N§	Si	200J	TO46	DDØ
42	MM2102		50n	20n	30n	50n	800mØ	10	2.0m	1.0 §	200 §	4.5p§		N-MOS	Si	200J	R38y	
43	MM2103		50n	30n	25n	50n	800mØ	10	2.0m	1.0 §	600 §	6.5p§		P-MOS	Si	200J	R38y	
44	2N781		60nØ		20n	50n	150m	.22 Ø	10mØ	25 Δ	16			P	Ge	100J	TO18	AØ
45	2N1960		60nØ		20n	50n	1.0 Ø	220mØ	10mØ	25 Δ	16			P	Ge	100J	TO46	AØ
46#	BSW30		60n	50n		100nØ	1.3 Ø					11p§		P-MOS	Si	175J	TO72	DM
47#	BSW31		60n	50n		100nØ	1.3 Ø					11p§		P-MOS	Si	175J	TO72	DM
48	A390		65n	45n	35n	75n	800mØ	10	2.0m	1.0m§	300 §	5.5pØ		N-MOS	Si	200J	TO72	DZ
49	MEM200		65n	45n	100n	100n	225m				200 §	5.0p§		N	Si	200S	TO22	DR
50	MEM201		65n	45n	100n	100n	225m				300 §	5.0p§		N	Si	200S	TO22	DR
51	MEM202		65n	45n	100n	100n	225m				500 §	7.0p§		N	Si	200S	TO22	DR
52	2N725		70nØ			100nØ	150m		10mØ	20 Δ		5.0p		P-DME	Ge	100J	TO18	AØ
53	2N695		75nØ		100n	100n	75m	300mØ	10mØ	25 Δ	2.0	5.0pØ		P	Ge	100J	TO17	G
54	2N1961		75nØ		35n	75n	150m	.25 Ø	10mØ	20 Δ	20			P	Ge	100J	TO46	AØ
55#	MDS37		75nØ		120n	100n	150m	300mØ	40mØ	20 Δ				P-MD	Ge		TO18	
56	MEM100		75n	55n	150n	150n	300m				150 §	9.0p§		P	Si	200S	TO72	DM
57	MEM101		75n	55n	150n	150n	300m				175 §	10p§		P	Si	200S	TO72	DM
58	MEM102		75n	55n	150n	150n	300m				200 §	11p§		P	Si	200S	TO72	DM
59#	98T2		85n†	60n†	85n†	40n†	200m	5.0 Ø	100mØ	350 *	6.0			N-PE†	Si	100J	T098	B
60#	BSV20		100n	20n	30n	150n	400m							P-MOS	Si	175J	TO72	DM
61#	BSV20A		100n	20n	30n	150n	400m							P-MOS	Si	175J	TO72	DM
62#	BSV34		100n	20n	30n	150n	600m							P-MOS	Si	175J	L51a	
63#	BSV34A		100n	20n	30n	150n	600m							P-MOS	Si	175J	L51a	
64	D4D20		100n		100n	100n	150m	5.0 Ø	10mØ	15	150	4.0pØ		N-GD	Si	150J	R133	A
65	D4D21		100n		100n	100n	150m	5.0 Ø	10mØ	40	150	4.0pØ		N-GD	Si	150J	R133	A
66	D4D22		100n		100n	100n	150m	5.0 Ø	10mØ	120	150	4.0pØ		N-GD	Si	150J	R133	A
67#	BSX83		150n	100n		400nØ	1.0 Ø	15		600m§	1.5k§	2.5p§		P-DPL	Si	175J	TO72	DM
68#	BSX84		150n	100n		400nØ	1.0 Ø	15		800m§	800 §	2.5p§		P-DPL	Si	175J	TO72	DM
69	3N21		200n		500nØ		100m			2.5				P	Ge	50A		
70#	BSW95		200n	10n	50n	400n	350m							P-MOS	Si	175J	TO72	DM
71#	BSW95A		200n	10n	50n	400n	350m							P-MOS	Si	175J	TO72	DM
72	2N747		350nØ		200n	200n	200m	1.0 Ø	10mØ	90 Ø	120m	8.0pØ		N	Si	175S	u95	A
73	2N748		350nØ		350n	350n	200m	1.0 Ø	10mØ	40 Ø	100m	8.0pØ		N	Si	175S	u95	A
74#	3SJ11		400nØ†			400nØ†	100m							P-MOS	Si	150S	TO72	Du
75	2N528		500n		1.0u	500n	2.5	1.0 Ø	500mØ	20	500m	45pØ		P-A	Ge	100A	TO38	AØ
76	2N625		500n		500n	500n	1.5 Ø	1.5	50mØ	45 Δ	2.0	60pØ		N-A	Ge	100S		
77	2N803		800n		600n	550n	75m	350m	150mØ	15 Δ	2.1	20pØ		P	Ge	85S	u8	A
78	2N804		800n		600n	550n	75m	350m	150mØ	15 Δ	2.1	20pØ		P	Ge	85S	u9	B§
79	2N805		800n		600n	500n	75m	350m	200mØ	20 Δ	1.6	20pØ		P	Ge	85S	u8	A
80	2N806		800n		600n	500n	75m	350m	200mØ	20 Δ	1.6	20pØ		P	Ge	85S	u9	B§
81	2N819		800n		600n	500n	75m	1.0 Ø	50mØ	30 Δ	5.0	20pØ		N	Ge	100S	u8	A
82	2N820		800n		600n	550n	75m	1.0 Ø	50mØ	30 Δ	5.0	20pØ		N	Ge	100S	u9	B§
83	2N821		800n		600n	550n	75m	1.0 Ø	50mØ	40 Δ	5.0	20pØ		N	Ge	100S	u8	A
84	2N822		800n		600n	500n	75m	1.0 Ø	50mØ	40 Δ	5.0	20pØ		N	Ge	100S	u9	B§
85	2N801		1.0u		600n	550n	75m	350m	100mØ	10 Δ	3.2	20pØ		P	Ge	85S	u8	A
86	2N802		1.0u		600n	550n	75m	350m	100mØ	10 Δ	3.2	20pØ		P	Ge	85S	u9	B§
87	2N817		1.0u		600n	550n	75m	1.0 Ø	50mØ	20 Δ	5.0	20pØ		N	Ge	100S	u8	A
88	2N818		1.0u		600n	550n	75m	1.0 Ø	50mØ	20 Δ	5.0	20pØ		N	Ge	100S	u9	B§
89#	2SC406		1000n		700n	700n	150m	1.0 Ø	100mØ	120				N-A	Ge	100J	R107a	A
90#	ASY63		1500n†§				200m	.10 Ø	3.0mØ	100 †Ø				P	Ge	75J	R47	
91	NS1510		1500nØ		1.5uØ		100m	1.0 Ø	.10mØ	75	1.0k	6.0pØ		N	Si	175	TO18	AØ
92	153-24		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	15 Δ	866m				Si	175J	MT58	
93	153-26		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	15 Δ	866m				Si	175J	MT58	
94	153-28		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	15 Δ	866m				Si	175J	MT58	
95	153-30		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	15 Δ	866m				Si	175J	MT58	
96	154-24		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	25 Δ	833m				Si	175J	MT58	
97	154-26		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	25 Δ	833m				Si	175J	MT58	
98	154-28		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	25 Δ	833m				Si	175J	MT58	
99	154-30		3.0uØ†			6.0uØ†	200 Ø	4.0 Ø	1.5 Ø	25 Δ	833m				Si	175J	MT58	
100	B170018		4000n		300n	500n	60 Ø	4.0 Ø	1.0mØ	30	400m			N-DM	Si	200J	TO3	CØ
101	B170021		4000n		300n	500n	60 Ø	4.0 Ø	1.0mØ	30	400m			N-DM	Si	200J	TO3	CØ
102	B170024		4000n		300n	500n	60 Ø	4.0 Ø	1.0mØ	30	400m			N-DM	Si	200J	TO3	CØ
103	163-24		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	15 Δ	220m			N	Si	175J	MT33	AØ
104	163-26		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	15 Δ	220m			N	Si	175J	MT33	AØ
105	163-28		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	15 Δ	220m			N	Si	175J	MT33	AØ
106	163-30		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	15 Δ	220m			N	Si	175J	MT33	AØ
107	164-24		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	25 Δ	200m			N	Si	175J	MT33	AØ
108	164-26		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	25 Δ	200m			N	Si	175J	MT33	AØ
109	164-28		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	25 Δ	200m			N	Si	175J	MT33	AØ
110	164-30		6.0uØ			12uØ	200 Ø	4.0 Ø	5.0 Ø	25 Δ	200m			N	Si	175J	MT33	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MA T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CONF.
1	B170019		6000n		400n	1.0u	90 Ø	4.0 Ø	3.0mØ	20	270m			N-DM	Si	200J	TO3	CØ
2	B170022		6000n		400n	1.0u	90 Ø	4.0 Ø	3.0mØ	20	270m			N-DM	Si	200J	TO3	CØ
3	B170025		6000n		400n	1.0u	90 Ø	4.0 Ø	3.0mØ	20	270m			N-DM	Si	200J	TO3	CØ
4	151-24		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-F	Si	150J	MT1	
5	151-26		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-F	Si	150J	MT1	
6	151-28		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-F	Si	150J	MT1	
7	151-30,		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5mØ	11 Δ	870m			N-F	Si	150J	MT1	
8	152-24		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5m	18 Δ	870m			N-F	Si	150J	MT1	
9	152-26		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5m	18 Δ	830m			N-F	Si	150J	MT1	
10	152-28		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5m	18 Δ	830m			N-F	Si	150J	MT1	
11	152-30		7.0uØ			14uØ	100 Ø♦	4.0 Ø	1.5m	18 Δ	830m			N-F	Si	150J	MT1	
12	B170020		8000n		500n	1.5u	120 Ø	4.0 Ø	5.0mØ	12	300m			N-DM	Si	200J	TO3	CØ
13	B170023		8000n		500n	1.5u	120 Ø	4.0 Ø	5.0mØ	12	300m			N-DM	Si	200J	TO3	CØ
14	B170026		8000n		500n	1.5u	120 Ø	4.0 Ø	5.0mØ	12	300m			N-DM	Si	200J	TO3	CØ
15	MP1534		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
16	MP1535		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
17	MP1536		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
18	MP1537		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
19	MP1538		8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110J	TO41	CØ
20	2N5579		10uØ			10uØ	150 $	3.0 Ø	40 Ø	10 Δ#				N	Si	175J	MD37	CØ
21	2N5580		10uØ			10uØ	150 $	3.0 Ø	40 Ø	10 Δ#				N	Si	175J	MD38	CØ
22	MP1529		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
23	MP1530		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
24	MP1531		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
25	MP1532		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
26	MP1533		10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110J	TO41	CØ
27	2N5576		15uØ			15uØ	150 $	4.0 Ø	60 Ø	10 Δ#				N	Si	175J	MD37	CØ
28	2N5577		15uØ			15uØ	150 $	4.0 Ø	60 Ø	10 Δ#				N	Si	175J	MD38	CØ
29	2N1821		20uØ			25uØ	250 ØØ	4.0 Ø	15 Ø	10 Δ	100m			N	Si	175J	TO49	C
30	2N1827		20uØ			25uØ	250 ØØ	4.0 Ø	20 Ø	10 Δ	75m			N	Si	175J	TO49	C
31	2N1828		20uØ			25uØ	250 ØØ	4.0 Ø	20 Ø	10 Δ	75m			N	Si	175J	TO49	C
32	2N1834		20uØ		25uØ		250	4.0 Ø	25m	10 Δ				N	Si	175J	TO49	
33	2N1835		20uØ		25uØ		250	4.0 Ø	25m	10 Δ				N	Si	175J	TO49	
34	2N2121		20uØ		25uØ		250	4.0 Ø	15m	10 Δ				N	Si	175J	TO83	
35	2N2128		20uØ		25uØ		250	4.0 Ø	20m	10 Δ				N	Si	175J	TO83	
36	2N2134		20uØ		25uØ		250	4.0 Ø	25m	10 Δ				N	Si	175J	TO83	
37	2N2135		20uØ		25uØ		250	4.0 Ø	25m	10 Δ				N	Si	175J	TO83	
38	MP900		25u		5.0u	15u	250 Ø	2.0 Ø	70 Ø	20 Δ	3.0m			P-AN	Si	110J	X71	A
39	MP901		25u		5.0u	15u	250 Ø	2.0 Ø	70 Ø	20 Δ	3.0m			P-AN	Si	110J	X71	A
40	MP902		25u		5.0u	15u	250 Ø	2.0 Ø	70 Ø	20 Δ	3.0m			P-AN	Si	110J	X71	A
41	B113003		30u		6.0u	20u	3.5	2.0 Ø	10 Ø	100 Ø	30m			P-DA	Ge	110	TO3	CØ
42	B113004		30u		6.0u	20u	3.5	2.0 Ø	10 Ø	100 Ø	30m			P-DA	Ge	110	TO3	CØ
43	B113005		30u		6.0u	20u	3.5	2.0 Ø	10 Ø	100 Ø	30m			P-DA	Ge	110	TO3	CØ
44	2N463	4.0kt Δ	4.6ut		4.0ut	1.5ut		2.0 Ø	2.0	27	80m	310p		P-A	Si	100	TO32	AØ
45	MP1534A	5.0kt Δ	8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110	TO41	CØ
46	MP1535A	5.0kt Δ	8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110	TO41	CØ
47	MP1536A	5.0kt Δ	8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110	TO41	CØ
48	MP1537A	5.0kt Δ	8000nØ		3.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	35 Δ	400m			P-A	Ge	110	TO41	CØ
49	MP1529A	5.0kt Δ	10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110	TO41	CØ
50	MP1530A	5.0kt Δ	10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110	TO41	CØ
51	MP1531A	5.0kt Δ	10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110	TO41	CØ
52	MP1532A	5.0kt Δ	10uØ		2.0u	5.0u	90 Ø	2.0 Ø	3.0 Ø	20 Δ	500m			P-A	Ge	110	TO41	CØ
53	2N2535	8.0k Δ	12u	13uØ	2.5u	5.0u	10 Ø	2.0 Ø	1.5 Ø	14 Δ	500m			P	Ge	100C	MT43	AØ
54	2N2536	8.0k Δ	12u	13uØ	2.5u	5.0u	10 Ø	2.0 Ø	1.5 Ø	14 Δ	500m			P	Ge	100C	MT43	AØ
55	MP1549A	10kt	5000nØ		2.0u	10u	90 Ø	2.0 Ø	10uØ	10 Δ	100m			P-A	Ge	100J	TO41	CØ
56	MP1550A	10kt	5000nØ		2.0u	10u	90 Ø	2.0 Ø	10uØ	10 Δ	100m			P-A	Ge	100J	TO41	CØ
57	MP1551A	10kt	5000nØ		2.0u	10u	90 Ø	2.0 Ø	10uØ	10 Δ	100m			P-A	Ge	100J	TO41	CØ
58	MP1552A	10kt	5000nØ		2.0u	10u	90 Ø	2.0 Ø	10uØ	10 Δ	100m			P-A	Ge	100J	TO41	CØ
59	MP1553A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	30 Δ	70m			P-A	Ge	100J	TO41	CØ
60	MP1554A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	30 Δ	70m			P-A	Ge	100J	TO41	CØ
61	MP1555A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	30 Δ	70m			P-A	Ge	100J	TO41	CØ
62	MP1556A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	30 Δ	70m			P-A	Ge	100J	TO41	CØ
63	MP1557A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	50 Δ	50m			P-A	Ge	100J	TO41	CØ
64	MP1558A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	50 Δ	50m			P-A	Ge	100J	TO41	CØ
65	MP1559A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	50 Δ	50m			P-A	Ge	100J	TO41	CØ
66	MP1560A	10kt	10uØ		5.0u	25u	90 Ø	2.0 Ø	10uØ	50 Δ	50m			P-A	Ge	100J	TO41	CØ
67#	BUY26	10k§	20u		3.0u	60u	100 Ø*	3.0 Ø	10 Ø	5.5	93m			N-A	Si	100J	MT76	Ø
68#	BUY27	10k§	20u		3.0u	60u	100 Ø*	3.0 Ø	10 Ø	5.5	93m			N-A	Si	100J	MT76	Ø
69#	BUY28	10k§	20u		3.0u	60u	100 Ø*	3.0 Ø	10 Ø	5.5	93m			N-A	Si	100J	MT76	Ø
70	CST1773A	.015M	2500n		300n	400n	28 Ø	2.0 Ø	500mØ	25 Δ	.50			P	Ge	100	MS7	
71	CST1773B	.015M	2500n		300n	400n	28 Ø	2.0 Ø	500mØ	25 Δ	.50			P	Ge	100	MS7	
72	2N2584	30kt Δ	6.0u		6.0u	5.0u	150 Ø	5.0 Ø	5.0m	10 Δ	.14			N	Si	150C	TO36	CØ
73	2N2585	30kt Δ	6.0u		6.0u	5.0u	150 Ø	5.0 Ø	10m	10 Δ	1.0			N	Si	150C	TO36	CØ
74	MP5692	200k§ Δ	20u		8.0u	15u	120 Ø	2.0 Ø	40 Ø	10 Δ#				P	Ge	110J	TO41	CØ
75	MP5693	200k§ Δ	20u		8.0u	15u	120 Ø	2.0 Ø	40 Ø	10 Δ#				P	Ge	110J	TO41	CØ
76	MP5694	200k§ Δ	20u		8.0u	15u	120 Ø	2.0 Ø	40 Ø	10 Δ#				P	Ge	110J	TO41	CØ
77	MP5695	200k§ Δ	20u		8.0u	15u	120 Ø	2.0 Ø	40 Ø	10 Δ#				P	Ge	110J	TO41	CØ
78	MP5696	200k§ Δ	20u		8.0u	15u	120 Ø	2.0 Ø	40 Ø	10 Δ#				P	Ge	110J	TO41	CØ
79	2N2589	250k§ Δ	1.5uØ			5.0uØ	85 ØØ	4.0 Ø	3.0 Ø	100 Ø	150m			N	Si	200C	MT1b	CØ
80	A580-0402	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
81	A580-0403	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
82	A580-0405	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
83	A580-0802	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
84	A580-0803	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
85	A580-0805	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
86	A580-1202	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
87	A580-1203	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
88	A580-1205	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
89	A580-1602	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
90	A580-1603	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
91	A580-1605	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
92	A580-1802	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
93	A580-1803	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
94	A580-1805	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
95	A580-2002	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
96	A580-2003	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
97	A580-2005	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
98	A580-2202	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
99	A580-2203	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
100	A580-2205	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
101	A580-2402	250k§ Δ	10u		4.0u	16u	87 Ø$	4.0 Ø	2.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
102	A580-2403	250k§ Δ	10u		4.0u	18u	87 Ø$	4.0 Ø	3.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
103	A580-2405	250k§ Δ	10u		4.0u	20u	87 Ø$	4.0 Ø	5.0 Ø	15 Δ#		750pØ		N-E	Si	175J	TO3	CØ
104#	ASZ16†	.25M	20u		15u	40u		1.0	1.0m	45 Δ				P-A	Ge	90J	TO3	
105#	SFT268	.30M	6000n	700n	3.5u	11u	87mØ	2.0 Ø	12 Ø	20 Δ	.06			P-A	Ge	95C	TO36	
106	2N2341	350kt Δ	400n		600n	1.2u	10 Ø$	6.0 Ø	750mØ	40 Δ	5.3			N	Si	175C	TO37	AØ
107	2N2343	350kt Δ	400n		600n	1.2u	10 Ø$	6.0 Ø	750mØ	40 Δ	5.3			N	Si	175C	TO37	AØ
108	DTG1110B	450k§	6000n		1.6u	1.4u	105	2.0	4.0	25 Δ	160m			P-D	Ge	110	TO3	
109	1441-0815	500k§ Δ	500nØ			10uØ	350m♦Ø	4.0 Ø	50uØ	10 #				N-D	Si	200J	TO114	
110	1401-0620	500k§ Δ	5.0uØ			10uØ	625 §Ø	4.0 Ø	200 Ø	10 Δ#				N-D	Si	200J	MT14a	C

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	1401-1220	500k§△	5000nØ			10uØ	625m§Ø	4.0 Ø	200uØ	10 #				N-D	Si	200J	MT14a	C
2	1401-1225	500k§△	5000nØ			10uØ	625m§Ø	4.0 Ø	250uØ	10 #				N-D	Si	200J	MT14a	C
3	1401-1415	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	150 Ø	10 #△				N-D	Si	200J	MT14a	C
4	1401-1420	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	200 Ø	10 #△				N-D	Si	200J	MT14a	C
5	1401-1425	500k§△	5.0uØ			10uØ	625 §Ø	4.0 Ø	250 Ø	10 #△				N-D	Si	200J	MT14a	C
6	1441-0415	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	50uØ	10 #				N-D	Si	200J	TO114	
7	1441-0420	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	75uØ	10 #				N-D	Si	200J	TO114	
8	1441-0425	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	100uØ	10 #				N-D	Si	200J	TO114	
9	1441-0615	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	50uØ	10 #				N-D	Si	200J	TO114	
10	1441-0620	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	75uØ	10 #				N-D	Si	200J	TO114	
11	1441-0625	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	100uØ	10 #				N-D	Si	200J	TO114	
12	1441-0820	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	75uØ	10 #				N-D	Si	200J	TO114	
13	1441-0825	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	100uØ	10 #				N-D	Si	200J	TO114	
14	1441-1015	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	50uØ	10 #				N-D	Si	200J	TO114	
15	1441-1020	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	75uØ	10 #				N-D	Si	200J	TO114	
16	1441-1025	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	100uØ	10 #				N-D	Si	200J	TO114	
17	1441-1215	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	50uØ	10 #				N-D	Si	200J	TO114	
18	1441-1220	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	75uØ	10 #				N-D	Si	200J	TO114	
19	1441-1225	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	100uØ	10 #				N-D	Si	200J	TO114	
20	1441-1415	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	50uØ	10 #				N-D	Si	200J	TO114	
21	1441-1420	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	75uØ	10 #				N-D	Si	200J	TO114	
22	1441-1425	500k§△	5000nØ			10uØ	350m♦Ø	4.0 Ø	100uØ	10 #				N-D	Si	200J	TO114	
23	2N2340	550kt△	400n		600n	1.2u	10 Ø§	6.0 Ø	750mØ	10 △	5.3			N	Si	175C	TO37	AØ
24	2N2342	550kt△	400n		600n	1.2u	10 §Ø	6.0 Ø	750mØ	10 △	4.0			N	Si	175C	TO37	AØ
25	ST66	.60M	1300n	160n	2.5u	2.6u	80	4.0 Ø	3.0m	10	1.0			N-D	Si	150J	TO3	
26	ST610	.60M	1300n	160n	2.5u	2.6u	80	4.0 Ø	3.0m	10	1.0			N-D	Si	150J	TO3	
27	ST615	.60M	1300n	160n	2.5u	2.6u	80	4.0 Ø	3.0m	10	1.0			N-D	Si	150J	TO3	
28	DTG1210A	700k§	6000n		1.6u	1.4u	105	2.0	1.0	35	160m			P-D	Ge	110	TO3	
29#	2X2N3055	1.0M§	2.0ut	400nt	2.0ut	2.5ut	117 Ø		400mØ	2.5	100m	250p§		N-D	Si	200J	TO3	CØ
30#	AC155	1.20M§			3.5u		200m*	0.0	10mØ	68 ☑		100p☑		P-A	Ge	85J	TO1	
31#	ASY14	1.50M	2800nØ		1.5u	2.0u	75m*	700mØ	80mØ	25 †△		25p		P	Ge	75	R43	
32#	ASY82	1.50M§	3000n▼		3.5u		200m*	1.0 Ø	300mØ	35 △	1.6	100p☑		P-A	Ge	85J	TO1	
33#	ASY84	1.50M§	3000n▼		3.5u		200m*	1.0 Ø	300mØ	35 △	1.6	100p☑		P-A	Ge	85J	TO1	
34#	2SB386	1.50M	3300n		2.0u	2.5u	150m	.50 Ø	50mØ	80	3.0	45p	80nt	P-A	Ge	85J	TO1	A
35#	2SB453	1.50M	3300n		2.0u	2.5u	250m	1.0 Ø	100mØ	120	6.5		70nt	P-A	Ge	85J	RO107a	
36#	2SB454	1.50M	3300n		2.0u	2.5u	250m	1.0 Ø	100mØ	120	6.5		70nt	P-A	Ge	85J	RO107a	
37#	2SB455	1.50M	3300n		2.0u	2.5u	250m	1.0 Ø	100mØ	120	6.5		70nt	P-A	Ge	85J	RO107a	
38#	AC156	1.80M§			3.5u		200m*	0.0	10mØ	114 ☑		100p☑		P-A	Ge	85J	TO1	
39#	AC154	2.00M§			3.5u		200m*	0.0	10mØ	225 ☑		100p☑		P-A	Ge	85J	TO1	
40#	AC165	2.00M§			4.0u		200m*	0.0	10mØ	280 ☑		100p☑		P-A	Ge	85J	TO1	
41#	AC166	2.00M§			3.5u		200m*	0.0	10mØ	290 ☑		100p☑		P-A	Ge	85J	TO1	
42#	AC167	2.00M§			3.5u		200m*	0.0	10mØ	235 ☑		100p☑		P-A	Ge	85J	TO1	
43#	AC177	2.00M§			3.5u		200m*	0.0	10mØ	235 ☑		100p☑		P-A	Ge	85J	TO1	
44	2N159	2.00M△	200n			200n	80m							P-PC	Ge	85	OV4	
45#	ASY86	2.00M§	1600n▼		2.5u		200m*	1.0 Ø	300mØ	35 △	2.0	100p☑		N-A	Ge	85J	TO1	
46#	ASY88	2.00M§	1600n▼		2.5u		200m*	1.0 Ø	300mØ	35 △	2.0	100p☑		N-A	Ge	85J	TO1	
47#	2G524	2.00M	3000n	600n	1.0u	1.6u		225	1.0mØ	20	35	27p		P-A	Ge	85J	TO5	
48#	2G1024	2.00M	3000n	600n	1.2u	1.6u	225m	1.0 Ø	20mØ	35		27p		P-A	Ge	85J	TO5	
49#	AC157	2.50M§			3.0u		200m*	0.0	10mØ	190 ☑		100p☑		N-A	Ge	85J	TO1	
50#	AC168	2.50M§			3.5u		200m*	0.0	10mØ	235 ☑		100p☑		N-A	Ge	85J	TO1	
51#	ASY83	2.50M§	1500n▼		3.5u		200m*	1.0 Ø	300mØ	85 △	1.6	100p☑		P-A	Ge	85J	TO1	
52#	ASY85	2.50M§	1500n▼		3.5u		200m*	1.0 Ø	300mØ	85 △	1.6	100p☑		P-A	Ge	85J		
53#	2G525	2.50M	2000n	500n	1.2u	1.5u		225	1.0mØ	20	52	27p		P-A	Ge	85J	TO5	
54#	2G1025	2.50M	2000n	550n	1.3u	1.5u	225m	1.0 Ø	20mØ	52		27p		P-A	Ge	85J	TO5	
55#	2SA208H	3.00M			350n	350n	120m	.30 Ø	200m	40				P	Ge	85J	TO5	
56#	2SC89H	3.00M				.10n	120m	.20 Ø	20mØ	20 △				N	Ge	85J	TO5	
57	TIP04	3.00M§△	900pØ			8.0uØ	65 Ø	4.0 Ø	20mØ	10 #△		150p☑		N-DM	Si	200S	TO3	
58#	2SA208	3.00M	440n		350n	350n	120m	.30	200m	100 ☑		25p		P	Ge	85	TO5	
59#	2SC89	3.00M	450n		200n	180n	120m	.20	20m	100 ☑		25p		N	Ge	85	TO5	
60#	2SC179	3.00M	450n		200n	180n	120m	.20 Ø	20m	100 ☑		25p		N	Ge	85	TO1	
61#	2G526	3.00M	1500n	450n	1.4u	1.4u		225	1.0mØ	20	73	27p		P-A	Ge	85J	TO5	
62#	2G1026	3.00M	1540n	450n	1.4u	1.4u	225m	1.0 Ø	20mØ	73		27p		P-A	Ge	85J	TO5	
63#	NKT126	3.00M△	2000n		2.0u	750n	75m	1.0 Ø	25mØ	50 △	8.0	22p☑		P	Ge	75J	TO5	A
64#	2G527	3.30M	1400n	420n	1.5u	1.1u		225	1.0mØ	20	95	27p		P-A	Ge	85J	TO5	
65#	2G1027	3.30M	1440n	420n	1.4u	1.3u	225m	1.0 Ø	20mØ	95		27p		P-A	Ge	85J	TO5	
66#	2SC34	3.50M§△	1000n		1.0u	400n	140m	0.0	200m	30				N-A	Ge	75	R9	
67#	2SA212H	4.00M			320n	130n	120m	.30 Ø	100mØ	60		20p		P	Ge	85J	TO5	
68#	SA70	4.00M§△					150m	3.0 Ø	1.0m	20 †△				P-A	Si		TO1	
69	MM404	4.0M△	120nt	70nt	200nt	100nt	300mØ	150mØ	12mØ	80	12	2.0p☑		P	Ge	100J	TO18	AØ
70	MM404A	4.0M△	120nt	70nt	200nt	100nt	300mØ	150mØ	12mØ	80	12	2.0p☑		P	Ge	100J	TO18	AØ
71#	2SA211	4.00M	400n		400n	200n	120m	.30	100m	120 ☑		20p		P	Ge	85	TO5	
72#	2SA212	4.00M	400n		400n	200n	120m	.30	100m	120 ☑		20p		P	Ge	85	TO5	
73	CK25	4.00M	500nØt		300nt	450n	80m	350mØ	1.0mA	30	3.2	14p	50nt	P-FA	Ge	85J	u11	
74	CK25A	4.00M	500nØt		300nt	350nt	80m	350mØ	1.0mA	30	3.2	14p	50nt	P-FA	Ge	85J	u12	
75	DTS103	4.0M§△	550nt		1.0ut	350nt	125 Ø	1.5 Ø	5.0 Ø	20 △	180m			N-DM	Si	150J	TO3	CØ
76	DTS104	4.0M§△	550nt		1.0ut	350nt	125 Ø	1.5 Ø	5.0 Ø	50 △	150m			N-DM	Si	150J	TO3	CØ
77	DTS105	4.0M§△	550nt		1.0ut	350nt	125 Ø	1.5 Ø	5.0 Ø	20 △	180m			N-DM	Si	150J	TO3	CØ
78	DTS106	4.0M§△	550nt		1.0ut	350nt	125 Ø	1.5 Ø	5.0 Ø	20 △	180m			N-DM	Si	150J	TO3	CØ
79	DTS107	4.0M§△	550nt		1.0ut	350nt	125 Ø	1.5 Ø	5.0 Ø	20 △	180m			N-DM	Si	150J	TO3	CØ
80#	ASY87	4.00M§	800n▼		2.5u		200m*	1.0 Ø	300mØ	85 △	2.0	100p☑		N-A	Ge	85J	TO1	
81#	ASY89	4.00M§	800n▼		2.5u		200m*	1.0 Ø	300mØ	85 △	2.0	100p☑		N-A	Ge	85J	TO1	
82	2N799	4.0M△	1.4u▼				75m	200mØ	1.0mA	24 △	8.3	20p☑		P	Ge	85S	u8	A
83	2N800	4.0M△	1.4u▼				75m	200mØ	1.0mA	24 △	12	20p☑		P	Ge	85S	u9	B§
84	2N823	4.0M△	1.4u▼				75m	250mØ	20mA	40 △	8.3	20p☑		N	Ge	85S	u8	A
85	ASY31	4.00M§△	2200nØ		1.4u		125m	0.0	20m	80 ☑	20	16p§		P-A	Ge	75J	R9	
86#	2SC35	4.50M§△	1000n		1.0u	400n	140m	0.0	200m	65				N-A	Ge	75	R9	
87#	2SA209H	5.00M			400n	250n	120m	.30 Ø	200m	65				P	Ge	85J	TO5	
88#	2SC90H	5.0M				180p	120m	300mØ	200mØ	20 △				N	Ge	85J	TO5	
89#	2SA325	5.00M	140n		3.0u	1.0u	80m	1.0 Ø	80mØ	60		13p		P-A	Ge	85J	TO1	
90#	2SA209	5.00M	350n		400n	250n	120m	.30	200m	120 ☑		25p		P	Ge	85	TO5	
91#	2SA205	5.00M	400nt	110nt	800nt	600nt	200m	1.0 Ø	10mØ	40	13		15n	P-A	Ge	85	TO5	
92#	2SC180	5.00M	400n		200n	180n	120m	.30 Ø	200m	120 ☑		25p		N	Ge	85	TO1	
93	SDT7761	5.0M§△	400ntØ			600ntØ	71 Ø§	5.0 Ø	5.0 Ø	20 △	100m	350p☑		N	Si	200J	TO61	AØ
94	SDT7762	5.0M§△	400ntØ			600ntØ	71 Ø§	5.0 Ø	5.0 Ø	20 △	100m	350p☑		N	Si	200J	TO61	AØ
95	SDT7763	5.0M§△	400ntØ			600ntØ	71 Ø§	5.0 Ø	5.0 Ø	20 △	100m	350p☑		N	Si	200J	TO61	AØ
96	SDT7764	5.0M§△	400ntØ			600ntØ	71 Ø§	5.0 Ø	5.0 Ø	20 △	100m	350p☑		N	Si	200J	TO61	AØ
97	SDT7765	5.0M§△	400ntØ			600ntØ	71 Ø§	5.0 Ø	5.0 Ø	20 △	100m	350p☑		N	Si	200J	TO61	AØ
98	SDT7766	5.0M§△	400ntØ			600ntØ	71 Ø§	5.0 Ø	5.0 Ø	20 △	100m	350p☑		N	Si	200J	TO61	AØ
99	40403	5.00M§△	650n	200n	800n	400n	200m	1.0 Ø	10mØ	30 △	4.0	20p☑		P-A	Ge	85	TO5	§
100#	AU105	5.00M§	900n	100n	7.0u	2.0u	27.	2.0 Ø	1 Ø	140				P	Ge	100J	TO3	
101	GT123	5.00M△	900n				150m	1.0 Ø	10m	90 †		15p		P-A	Ge	100S	TO5	
102	2N1664	5.00M	2000n	800n	1.8u	1.5u		6.0 Ø	1.0m	120 #☑		25p☑		P	Ge	100J	TO5	
103#	NKT103	5.00M	2000n		2.0u	750n	75m		500mØ	80		20p	4.4n	P-A	Ge	75J	TO22	
104#	NKT106	5.00M	2000n		2.0u	750n	75m		25mØ	120		20p	4.4n	P-A	Ge	75J	TO22	
105#	NKT109	5.00M	2000n		2.0u	750n	75m		1.0mØ	80		20p	4.4n	P-A	Ge	75J	TO22	
106#	NKT123	5.00M	2000n		2.0u	750n	75m		500mØ	80		20p	4.4n	P-A	Ge	75J	TO5	
107#	NKT129	5.00M	2000n		2.0u	750n	75m		1.0mØ	80		20p	4.4n	P-A	Ge	75J	TO5	
108#	2G395	5.50M	1200n	260n	650n	650n	150m	1.0 Ø	10mØ	150 ☑	4.0	12p	1.6n	P-A	Ge	85J	TO5	
109	2N1173	6.00M		500nØ	1.5uØ		250m	1.0 Ø	10m	92	4.0	25p☑		N-A	Ge	100S	TO29	
110	CK26	6.00M	500nØt		300nt	350nt	80m	250mØ	1.0mA	40	3.2	14p	55nt	P-FA	Ge	85J	u11	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L E A D C O D E
1	CK26A	6.00M	500nØ†		300n†	350n†	80m	350mØ	10m△	55	3.2	14p	55n†	P-FA	Ge	85J	u12	
2#	2SA458	6.0M	1000n		700n	700n	150m	1.0 Ø	10mØ	60				P-A	Ge	85J	RO107b	
3#	2SA459	6.0M	1000n		700n	700n	150m	1.0 Ø	10mØ	120				P-A	Ge	85J	RO107b	
4#	ASY32	6.00M§△	2200nØ		1.4u		125m	0.0	20m	150 ☑	20	16p$		P-A	Ge	75J	R9	
5	2N1174	7.00M		500nØ	1.5uØ		250m	1.0 Ø	10m	110	4.0	25p☑		N-A	Ge	100S	TO29	
6#	2SA206	7.00M	350n†	100n†	750n†	550n†	200m	1.0 Ø	10mØ	55	13	15p		P-A	Ge	85	TO5	
7#	NKT125	7.00M△	1000n		2.0u	600n	100mØ	1.0 Ø	25mØ	50 △	8.0	22p☑		P	Ge	75J	TO5	A
8	JAN2N496	7.20M§△	175n$				150m	500mØ	15mØ	6.0 △	30	12p☑	5.0n	P	Si	140S	TO1	
9	2N1606	7.20M§△	300nØ		300nØ		100m	.50 Ø	15mØ	6.0 △				P	Si	140S	TO5	
10#	2SD222	8.0M	300n	40n	2.4u	2.6u	10 Ø	4.0 Ø	500m	60	1.0			N-D	Si	150J	MD25	AØ
11#	2SD223	8.0M	300n	40n	2.4u	2.6u	10 Ø	4.0 Ø	500m	60	1.0			N-D	Si	150J	MD25	AØ
12#	2SD224	8.0M	300n	40n	2.4u	2.6u	10 Ø	4.0 Ø	500m	60	1.0			N-D	Si	150J	MD25	AØ
13	2N825	8.00M	400n†	190n†	600n†	310n†	75m	1.0 Ø	10m	90	4.0	12p	140n†	P-FA	Ge	85J	u8	
14	2N826	8.00M	400n†	190n†	600n†	310n†	75m	1.0 Ø	10m	90	4.0	12p	140n†	P-FA	Ge	85J	u9	
15	2N123/5	8.00M	450n				150m	5.0	1.0m	65 †		15p		P-A	Ge	85S	TO5	
16	2N815	8.00M	600n†		400n†	400n†	75m	750mØ	200mØ	80		14p		N-FA	Ge	85J	u8	
17	2N816	8.00M	600n†		400n†	400n†	75m	750mØ	200mØ	80		14p		N-FA	Ge	85J	u9	
18#	2G396	8.00M	750n	230n	650n	450n	150m	1.0 Ø	10mØ	150 ☑	4.0	12p	1.7n	P-A	Ge	85J	TO5	
19#	2SA406	9.00M	470nØ†		700n	270n†	200m	1.0 Ø	10mØ	50	5.0	15p		P-A	Ge	85	TO5	
20#	2SC36	9.00M§△	1000n		1.0u	400n	140m	0.0	200m	100				N-A	Ge	75	R9	
21#	2G604	9.20M	380n				150m	1.0 Ø	10m	70		12p		P-A	Ge	100S	TO5	
22#	2G605	9.40M	350n†	160n†	440n†	280n†	150m	.25 Ø	4.5mØ	75		12p		P-A	Ge	85J	TO5	
23#	2G603	9.40M	400n	180n	410n	280n	150m	1.0 Ø	10mØ	150 ☑		12p		P-A	Ge	85J	TO5	
24#	2SA210H	10.0M			400n	250n	120m	.30 Ø	200m	100				P	Ge	85J	TO5	
25#	2SC91H	10.0M				.10n	120m	.30 Ø	200mØ	20 △				N	Ge	85J	TO5	
26#	2SA326	10.0M	85n		2.3u	700n	80m	1.0 Ø	80mØ	60		13p		P-A	Ge	85J	TO1	
27#	2SA210	10.0M	200n		400n	150n	120m	.30	200m	150 ☑		25p		P	Ge	85	TO5	
28#	NKT735	10.0M	220n		500n	600n	150m	350mØ	3.0 Ø	20 △	20	20p☑		N	Ge	85J	TO5	A
29	2N1607	10.0M§△	265nØ		265nØ		100m	.50 Ø	15mØ	6.0 △				P	Si	140S	TO5	
30#	2SC86	10.0M	300n		400n	200n	120m	.30 Ø	200mØ	60	1.5	20p☑		N-A	Ge	85J	TO1	
31#	2SC181	10.0M	300n		250n	180n	120m	.30 Ø	200m	220 ☑		25p		N	Ge	85	TO1	
32#	2SC85	10.0M	500n		400n	300n	120m	.30 Ø	200mØ	30	1.5	20p☑		N-A	Ge	85J	TO1	
33#	2SC84	10.0M	600n		400n	300n	120m	.50 Ø	20mØ	40	1.5	20p☑		N-A	Ge	85J	TO1	
34#	BC100	10.0M§	700n	500n	900n	500n	2.5 Ø*	20 Ø	10mØ	40	160			N-ME	Si	175J	TO5	AØ
35#	2SA371	10.0M	900n		300n	250n	80m	1.5 Ø	10mØ	70	10	10p	110n†	P-A	Ge	85J	TO1	A
36#	NKT102	10.0M	1000n		2.0u	600n	75m		500mØ	80		20p	4.4n	P-A	Ge	75J	TO22	
37#	NKT105	10.0M	1000n		2.0u	600n	75m		25mØ	120		20p	4.4n	P-A	Ge	75J	TO22	
38#	NKT108	10.0M	1000n		2.0u	600n	75m		1.0mØ	80		20p	4.4n	P-A	Ge	75J	TO22	
39#	NKT122	10.0M	1000n		2.0u	600n	75m		500mØ	80		20p	4.4n	P-A	Ge	75J	TO5	
40#	NKT128	10.0M	1000n		2.0u	600n	75m		1.0mØ	80		20p	4.4n	P-A	Ge	75J	TO5	
41	CK27	11.0M	400nØ†		300n†	350n†	80m	250mØ	1.0m△	55	2.1	14p	60n†	P-FA	Ge	85J	u11	
42	CK27A	11.0M	400nØ†		300n†	350n†	80m	250mØ	1.0m△	55	2.1	14p	60n†	P-FA	Ge	85J	u11	
43	2N824	12.0M		1.4u▼			70m	250mØ	20m	40 △	8.3	12p		N-FA	Ge	85J	u9	
44	2N1103	12M§△	50nØ		20n	80n	125m	3.0 Ø	10mØ	30 △	150	3.0p☑		N	Si	150S	TO5	A
45#	2SA207	12.0M	250n†	80n†	650n†	500n†	200m	1.0 Ø	10mØ	65	13	15p		P-A	Ge	85	TO5	
46#	ASZ10	12.0M△	300n		400n	1.4u	150m	.55 Ø	200mØ	20 †△	1.2	4.0p☑		P-D	Ge	75J	X12	
47#	ASZ30	12.0M△	300n		400n	1.4u	30m	.55 Ø	200mØ	20 †△	1.2	4.0p☑		P-D	Ge	75J	R76	
48#	2G397	12.0M	450n	200n	650n	350n	150m	1.0 Ø	10mØ	150 ☑	4.0	12p	1.9n	P-A	Ge	85J	TO5	
49	CK4	12.0M	1400n▼				80m	150mØ	400u△	60	8.3	12p		P-FA	Ge	85J	u11	
50	CK4A	12.0M	1400n▼				80m	150mØ	400u△	60	8.3	12p		P-FA	Ge	85J	u12	
51#	2SA18H	14.0M			400n	250n	80m	6.0 Ø	1.0m	140		10p		P	Ge	85J	TO1	
52#	2SA217H	14.0M			320n	130n	120m	.30 Ø	100mØ	60		20p		P	Ge	85J	TO5	
53#	2SA50	14.0M	100n†	1.5u▼	100n†	100n†	60m	1.0 Ø	24mØ	100				P-A	Ge	75J	TO1	A
54#	2SA217	14.0M	300n	25n	400n	150n	120m	.30	100m	120 ☑		20p		P	Ge	85	TO5	
55#	2SA407	14.0M	400nØ†		450n	200n†	200m	1.0 Ø	10mØ	60	5.0	15p		P-A	Ge	85	TO5	
56#	SFT298	15.0M	100nØ			1.4uØ	150m	.45 Ø	350mØ	35 △		25p☑		N-A	Ge	85J	TO5	A§
57#	NKT124	15.0M△	500n		2.0u	300n	100mØ	1.0 Ø	25mØ	50 △	8.0	22p☑		P	Ge	75J	TO5	A
58	CK28	17.0M	400nØ†		300n†	300n†	80m	.25 Ø	1.0m△	80	1.6	14p	70n†	P-FA			u11	
59	CK28A	17.0M	400nØ†		300n†	300n†	80m	250mØ	1.0m△	80	1.6	14p	70n†	P-FA	Ge	85J	u12	
60#	NKT101	18.0M	500n		2.0u	300n	75m		500mØ	80		20p	4.4n	P-A	Ge	75J	TO22	
61#	NKT104	18.0M	500n		2.0u	300n	75m		25mØ	120		20p	4.4n	P-A	Ge	75J	TO22	
62#	NKT107	18.0M	500n		2.0u	300n	75m		1.0mØ	80		20p	4.4n	P-A	Ge	75J	TO22	
63#	NKT121	18.0M	500n		2.0u	300n	75m		500mØ	80		20p	4.4n	P-A	Ge	75J	TO5	
64#	NKT127	18.0M	500n		2.0u	300n	75m		1.0mØ	80		20p	4.4n	P-A	Ge	75J	TO5	
65	NS9001	20.0M§△	100nØ			250n†	1.2	5.0 Ø	1.0 Ø	30 △	600m	70p		N-PL	Si	200J	TO39	AØ
66	NS9002	20.0M§△	100nØ			250n†	30 Ø$	5.0 Ø	1.0 Ø	30 △	250m	70p		N-PL	Si	200J	MT42	AØ
67	RT730M	20.0M	110n†				350m	10 Ø	150mØ	40	10	35p☑		N-PL	Si	175J	TO46	
68	RT731M	20.0M	110n†				350m	10 Ø	150mØ	80	10	35p☑		N-PL	Si	175J	TO46	
69#	2SC5100	20M§△	130nØ		3.0u	200n	8.0 Ø	2.0 Ø	200mØ	150 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
70#	2SC510R	20M§△	130nØ		3.0u	200n	8.0 Ø	2.0 Ø	200mØ	90 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
71#	2SC511O	20M§△	130nØ		3.0u	200n	8.0 Ø	2.0 Ø	200mØ	150 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
72#	2SC511R	20M§△	130nØ		3.0u	200n	8.0 Ø	2.0 Ø	200mØ	90 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
73#	2SC513O	20M§△	130nØ		3.0u	200n	8.0 Ø	2.0 Ø	200mØ	150 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
74#	2SC513R	20M§△	130nØ		3.0u	200n	8.0 Ø	2.0 Ø	200mØ	90 ☑	3.0	40p☑		N-DPL	Si	175J	TO39	AØ
75#	2SC522O	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	150 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
76#	2SC522R	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	90 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
77#	2SC523O	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	150 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
78#	2SC523R	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	90 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
79#	2SC524O	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	150 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
80#	2SC524R	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	90 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
81#	2SC525O	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	150 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
82#	2SC525R	20M§△	130nØ		3.0u	200n	10 Ø	2.0 Ø	200mØ	90 ☑	3.0	25p		N-DPL	Si	175J	MD29	AØ
83	TN304	20.0M§	150n	50n	700n	200n	30 Ø	1.0 Ø	50mØ	25	250m	125p☑		N-PE	Si	200A	MT47	
84	2N2161	20M△	350nØ		350n	350n	200m	5.0 Ø	10mØ	70 △	150	3.0pØ		N	Si	175S	TO5	A
85	1756-0440	20M§△	500nØ		600n	350n	240	3.0 Ø	40 Ø	15		1.6nØ		N-EM	Si	200J	TO63	
86	1776-0440	20M§△	500nØ		600n	350n	150 Ø$	3.0 Ø	40 Ø	15 △#		1.6nØ		N-E	Si	200J	TO63	A
87	USAF525ES085M	20.0M§△	500nØ		1.5u	400n	2.0m	3.0 Ø	15mØ	27 △	12	900p☑		N-PE	Si	200S	X20	
88#	2SC166	20.0M	580n		2.0u	650n	200m	12	3.0m	30 △		18p		N	Si	150J	TO18	
89#	2SC167	20.0M	580n		2.0u	650n	200m	12	3.0m	30 △		18p		N	Si	150J	TO18	
90	1756-0460	20M§△	600nØ		700n	450n	240	3.0 Ø	60 Ø	15		1.6nØ		N-EM	Si	200J	TO63	
91	1756-1860	20M§△	600nØ		700n	450n	240	3.0 Ø	60 Ø	15		1.6nØ		N-EM	Si	200J	TO63	
92	1776-0460	20M§△	600nØ		700n	450n	150 Ø$	3.0 Ø	60 Ø	15 △#		1.6nØ		N-E	Si	200J	TO63	A
93	1776-1860	20M§△	600nØ		700n	450n	240	3.0 Ø	60 Ø	15		1.6nØ		N-EM	Si	200J	TO63	A
94	2N3601	20.0M§△	1000n	300n	2.0u	700n	500m	1.5 Ø	1.0 Ø	180 ☑	330m				Ge	100J	R81	Ø
95	2N3602	20.0M§△	1000n	300n	2.0u	700n	750m	1.5 Ø	1.0 Ø	180 ☑	330m			P-DA	Ge	100J	MT55	ØØ
96	2N3603	20.0M§△	1000n	300n	2.0u	700n	500m	1.5 Ø	1.0 Ø	180 ☑	330m				Ge	100J	R81	Ø
97	2N3604	20.0M§△	1000n	300n	2.0u	700n	750m	1.5 Ø	1.0 Ø	180 ☑	330m			P-DA	Ge	100J	MT55	Ø
98	USAF501ES001M	20.0M§△	1000nØ		1.0u	250n	250m	5.0 Ø	200u△	20 △	150	4.0p☑		N-GD	Si	150J	TO39	
99	JAN2N3789	20.0M§☑	1.5uØ			2.0uØ	150 Ø	4.0 Ø	10 Ø	5.0 △#		500p☑		P	Si	200A	TO3	CØ
100	JAN2N3790	20.0M§☑	1.5uØ			2.0uØ	150 Ø	4.0 Ø	10 Ø	5.0 △#		500p☑		P	Si	200A	TO3	CØ
101#	BUY55-4	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
102#	BUY55-6	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
103#	BUY55-10	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
104#	BUY56-4	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
105#	BUY56-6	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
106#	BUY56-10	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
107#	BUY72-4	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
108#	BUY72-6	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
109#	BUY72-10	20M§	2.0uØ		1.2u	2.0uØ	60 §	1.5 Ø	7.0 Ø	8.0	214m	200p☑		N-D	Si	200J	TO3	B
110#	DAT1A	25.0M§△				75nØ	20m	3.0 Ø	500uØ	25 †△		6.0p☑		P-MA	Ge		TO1	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	DAT2	25.0M§Δ				70nØ	30m	500mØ	50mØ	40 Δ		6.0pØ		P-MA	Ge		TO1	
2#	MA393E	25.0M§Δ				75nØ	30m	500mØ	50mØ	40 Δ		6.0pØ		P-MA	Ge		TO1	
3#	2SA248	25.0M	30n				125m	1.0	200m	50		3.5p	600n	P-D	Ge	75J	TO44	
4	2N3148	25.0M§Δ	80n§				25m*	500mØ	50m	60 Δ	6.0			P	Ge	100S	TO24	
5	2N1608	25.0M§Δ	235nØ		235nØ		100m	.50 Ø	15mØ	6.0 Δ				P	Si	140S	TO5	
6	1843-3510	25M§Δ	500nØ†		1.5u†	1.0u†	85 Ø§	5.0 Ø	10 Ø	15 #Δ		600pØ		N-EM	Si	200J	TO3	CØ
7	1843-3520	25M§Δ	500nØ†		1.5u†	1.0u†	85 Ø§	5.0 Ø	20 Ø	10 #Δ		600pØ		N-EM	Si	200J	TO3	CØ
8	1843-3705	25M§Δ	500nØ†		1.5u†	1.0u†	85 Ø§	5.0 Ø	5.0 Ø	20 #Δ		600pØ		N-EM	Si	200J	TO3	CØ
9	1843-3710	25M§Δ	500nØ†		1.5u†	1.0u†	85 Ø§	5.0 Ø	10 Ø	15 #Δ		600pØ		N-EM	Si	200J	TO3	CØ
10	1843-3720	25M§Δ	500nØ†		1.5u†	1.0u†	85 Ø§	5.0 Ø	20 Ø	10 #Δ		600pØ		N-EM	Si	200J	TO3	CØ
11	2N496/18	28.8M§Δ	175n§				150m	.50 Ø	15mØ	15 Δ	30	12pØ	1.5n	P-S	Si	140S	TO18	
12	2N643	30.0M§	10n	80n	6.0n	80n	120m	7.0 Ø	5.0m	45 †		2.0p		P-A	Ge	71A	TO9	AØ
13	2N745	30.0M	50n†		20n†	80n†	150m	5.0 Ø	10mØ	35	150	1.4p		N-PD	Si	175J	u2	
14	2N907	30.0M	50n†		20n†	80n†	150m	5.0 Ø	10mØ	35	150	1.4p		N-PD	Si	175J	u10	
15	MM4547	30M§Δ	50n†	30n†	400n†	60n†	25 Ø	10 Ø	500mØ	20 #Δ	3.0	60pØ		P-AN	Si	200J	TO37	AØ
16	MM4647	30M§Δ	50n†	30n†	400n†	60n†	5.0 Ø	10 Ø	500mØ	20 #Δ	3.0	60pØ		P-AN	Si	200J	TO39	AØ
17	2N2225	30.0M	100nØ		100n	100n	200m	.50 Ø	400m	60 †	1.2	14p		P-A	Ge	85C	TO5	
18	1743-0810	30M§Δ	300nØ		500n	300n	85 §Ø	2.0 Ø	10 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
19	1743-1210	30M§Δ	300nØ		500n	300n	85 §Ø	2.0 Ø	10 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
20	1743-1610	30M§Δ	300nØ		500n	300n	85 §Ø	2.0 Ø	10 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
21	1743-0620	30M§Δ	450nØ		550n	350n	85 §Ø	2.5 Ø	20 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
22	1743-1020	30M§Δ	450nØ		550n	350n	85 §Ø	2.5 Ø	20 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
23	1743-1420	30M§Δ	450nØ		550n	350n	85 §Ø	2.5 Ø	20 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
24	1763-1820	30M§Δ	450nØ		550n	350n	85 Ø§	2.5 Ø	20 Ø	20 Δ#		800pØ		N-E	Si	200J	TO3	CØ
25	1768-1820	30M§Δ	450nØ		550n	350n	100 Ø§	2.5 Ø	20	20 Δ#		800pØ		N-E	Si	200J	TO63	A
26	1743-0830	30M§Δ	500nØ		600n	400n	85 §Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
27	1743-1230	30M§Δ	500nØ		600n	400n	85 §Ø	3.0 Ø	30 Ø	20 #Δ		800pØ		N-E	Si	200J	TO3	CØ
28	1743-1630	30M§Δ	500nØ		600n	400n	150 Ø	3.0 Ø	30 Ø	20 Δ#		800pØ		N-EM	Si	200J	TO3	CØ
29	1748-1630	30M§Δ	500nØ		600n	400n	175 Ø	3.0 Ø	30 Ø	20 Δ#		800pØ		N-EM	Si	200J	TO63	A
30	1748-1830	30M§Δ	500nØ		600n	400n	175 Ø	3.0 Ø	30 Ø	20 Δ#		800pØ		N-EM	Si	200J	TO63	A
31	1743-1820	30M§Δ	600n		550n	350n	100 Ø§	4.0 Ø	30 Ø	12 Δ#		800pØ		N-E	Si	200A	TO3	CØ
32	1748-1820	30M§Δ	600n		550n	350n	114 Ø§	4.0 Ø	30 Ø	12 Δ#		800pØ		N-E	Si	200A	TO63	A
33	1743-1830	30M§Δ	700n		600n	400n	100 Ø§	4.0 Ø	40 Ø	10 Δ#		800pØ		N-E	Si	200A	TO3	CØ
34	2N1384	35.0M	80n	20n	250n	100n	240m	.50 Ø	200m	50				P-D	Ge	85A	TO11	A
35#	2SA327	35.0M	80n		1.2u	400n	80m	1.0 Ø	80mØ	30		2.5p		P-D	Ge	85J	TO44	
36	2N866	40.0MΔ§			150nØ		500m	10 Ø	150mØ	15 Δ	40	45p		N	Si	300S	TO18	
37	TN51	40.0M§	45n	15n	200n	40n	5.0mØ	5.0 Ø	1.0m	45	500m	100p		N-PE	Si	200J	MT26	
38	TN71	40.0M§	45n	15n	200n	40n	500u	5.0 Ø	1.0mØ	45	500m	100p		N-PE	Si	200J	TO5	
39	MM4545	40M§Δ	50n†	30n†	400n†	60n†	25 Ø	10 Ø	500mØ	20 #Δ	2.0	80pØ		P-AN	Si	200J	TO37	AØ
40	MM4546	40M§Δ	50n†	30n†	400n†	60n†	25 Ø	10 Ø	500mØ	20 #Δ	2.4	60pØ		P-AN	Si	200J	TO37	AØ
41	MM4645	40M§Δ	50n†	30n†	400n†	60n†	5.0 Ø	10 Ø	500mØ	20 #Δ	2.0	80pØ		P-AN	Si	200J	TO39	AØ
42	MM4646	40M§Δ	50n†	30n†	400n†	60n†	5.0 Ø	10 Ø	500mØ	20 #Δ	2.4	60pØ		P-AN	Si	200J	TO39	AØ
43	2SA478	40.0M	85n†		85n†	250n†	125m	1.0 Ø	400mØ	150 Ø	1.5			P-D	Ge	85J	TO1	A
44	NPC12-1A	40M§Δ	100nØ			1.0uØ	25 Ø	5.0 Ø	50mØ	20 Δ				N-PL	Si	200J	TO66	CØ
45	NPC12-2	40M§Δ	100nØ			1.0uØ	25 Ø	5.0 Ø	50mØ	20 Δ				N-PL	Si	200J	TO66	CØ
46	NPC13-1A	40M§Δ	100nØ			1.0uØ	50 Ø	5.0 Ø	100mØ	20 Δ				N-PL	Si	200J	TO3	CØ
47	NPC13-2	40M§Δ	100nØ			1.0uØ	50 Ø	5.0 Ø	100mØ	20 Δ				N-PL	Si	200J	TO3	CØ
48	NPC14-1A	40M§Δ	100nØ			1.0uØ	100 Ø	5.0 Ø	100mØ	20 Δ				N-PL	Si	200J	TO3	CØ
49	NPC14-2	40M§Δ	100nØ			1.0uØ	100 Ø	5.0 Ø	100mØ	20 Δ				N-PL	Si	200J	TO3	CØ
50	2N1660	40.0M§	110nØ†		1.7u†	1.4u†	85mØ	15 Ø	1.0 Ø	80	4.0			N-PD	Si	200J	MS3	
51	2N1661	40.0M§	110nØ†		1.7u†	1.4u†	85mØ	15 Ø	1.0 Ø	80	4.0			N-PD	Si	200J	MS3	
52	2N1662	40.0M§	110nØ†		1.7u†	1.4u†	85mØ	15 Ø	1.0 Ø	80	4.0			N-PD	Si	200J	MS3	
53	2N1896	40.0M§	110nØ†		1.7u†	1.4u†	85mØ	15 Ø	1 Ø	80	4.0			N-D	Si	200J	MT16	
54	2N1897	40.0M§	110nØ†		1.7u†	1.4u†	85mØ	15 Ø	1 Ø	80	4.0			N-D	Si	200J	MT16	
55	2N1898	40.0M§	110nØ†		1.7u†	1.4u†	85mØ	15 Ø	1 Ø	80	4.0			N-D	Si	200J	MT16	
56	TIP14	40M§Δ	150nØ			600nØ	2.0	5.0 Ø	200mØ	30 †Δ	.60 #			P-E	Si	150	X43	
57	TN301	40.0M§	150n	50n	700n	200n	30 Ø	1.0 Ø	50mØ	50	250m	125pØ		N-PE	Si	200A	MT47	
58	TN302	40.0M§	150n	50n	700n	200n	30 Ø	1.0 Ø	50mØ	25	400m	125pØ		N-PE	Si	200A	MT47	
59	TN303	40.0M§	150n	50n	700n	200n	30 Ø	1.0 Ø	50mØ	50	250m	125pØ		N-PE	Si	200A	MT47	
60	USA55191/36	40.0M§Δ	150nØ		600nØ		2.3	4.0 Ø	150mØ	25 Δ#	28	45pØ		P	Si	200J		
61	2N1252A	40M§Δ	230nØ		150nØ		800m	10 Ø	150mØ	45 Ø	.10	45p		N	Si	200J	TO5	AØ
62	1716-0402	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
63	1716-0602	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
64	1716-0802	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
65	1716-1002	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
66	1716-1202	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
67	1716-1402	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
68	1716-1602	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
69	1716-1802	40M§Δ	300nØ		600n	300n	87	2.0 Ø	2.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
70	1714-1805	40M§Δ	400nØ		600n	300nØ	25 Ø§	2.0 Ø	5.0 Ø	20 Δ#		250pØ		N-E	Si	200J	TO66	CØ
71	1716-0405	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
72	1716-0605	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
73	1716-0805	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
74	1716-1005	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
75	1716-1205	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
76	1716-1405	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
77	1716-1605	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
78	1716-1805	40M§Δ	400nØ		600n	300n	87	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO61	A
79	1718-1805	40M§Δ	400nØ		600n	300n	58	2.0 Ø	5.0 Ø	20		250pØ		N-EM	Si	200J	TO111	G
80#	2SA375	40.0M	550n		300n	200n	80m	1.0 Ø	50mØ	40	3.0	2.5p	30n†	P-D	Ge	85J	TO1	
81	2N908	45.0M	50n†		20n†	80n†	150m	5.0 Ø	10mØ	75	150	1.4p		N-PD	Si	175J	u10	
82#	BLY29	46.0M§Ø	300nØ			1.5uØ	30 Ø	5.0 Ø	2.0 Ø	50 #	500m#	40p		N-DPE	Si	200J	TO59	
83	2N867	50.0MΔ§			150nØ		500m	10 Ø	150mØ	30 Δ	40	45p		N	Si	300S	TO18	
84	D12X043	50.0M§Δ			150n	50n	300m	10 Ø	150mØ	40 Δ	1.7	20pØ		N-PE	Si	200J	TO5	
85#	ST54	50.0M§Δ			300n		300m	400mØ	1.0mØ	35 Δ		10pØ		N-PE	Si		TO18	Ø
86#	ST160	50.0M§Δ			25n		600m	10 Ø	150mØ	30 #Δ		25pØ		N-PE	Si		TO5	Ø
87#	ST161	50.0M§Δ			25n		600m	10 Ø	150mØ	20 #Δ		25pØ		N-PE	Si		TO5	Ø
88#	ST162	50.0M§Δ			25n		600m	10 Ø	150mØ	40 #Δ		25pØ		N-PE	Si		TO5	Ø
89#	ST163	50.0M§Δ			25n		600m	10 Ø	150mØ	20 #Δ		25pØ		N-PE	Si		TO5	Ø
90	2N644	50.0M§	8.0n	60n	4.0n	60n	120m	7.0 Ø	5.0m	45 †		2.0p		P-A	Ge	71A	TO9	A
91	2N2234	50M§Δ	30nØ			600nØ	10 Ø#	2.0 Ø	500mØ	8.0 Δ	2.5			N	Si	150C	TO3	CØ
92	TN52	50.0M§	35n	15n	300n	50n	5.0mØ	5.0 Ø	1.0m	80	500m	100p		N-PE	Si	200J	MT26	
93	TN72	50.0M§	35n	15n	300n	50n	500u	5.0 Ø	1.0mØ	80	500m	100p		N-PE	Si	200J	TO5	
94	2N1131A/51	50.0M§Δ	45nØ			35nØ	300m	10 Ø	150mØ	45 Ø	10	30pØ		P-PE	Si	175J	TO51	A
95#	BSW39	50M§Δ	50n†Ø			300 †Ø	4.4 Ø*	1.0 Ø	1.0mØ	20 Δ*		20p$Ø		P-PE	Si	200J	TO39	AØ
96#	BSW40	50M§Δ	50n†Ø			300 †Ø	4.4 Ø*	1.0 Ø	1.0mØ	20 Δ*		20p$Ø		N-PE	Si	200J	TO39	AØ
97	MM2193A	50M§Δ	70n		150n	50n	5.0 Ø	10 Ø	100uØ	15 Δ	1.6	20pØ		N-AN	Si	200J	TO39	A
98#	2SA312	50.0M	100n				150m	1.0 Ø	20m	60		3.0p		P-D	Ge	75J	TO5	
99	NPC12-1B	50M§Δ	100nØ			1.0uØ	25 Ø	5.0 Ø	50mØ	20 Δ				N-PL	Si	200J	TO66	CØ
100	NPC13-1B	50M§Δ	100nØ			1.0uØ	50 Ø	5.0 Ø	100mØ	20 Δ				N-PL	Si	200J	TO3	CØ
101	NPC14-1B	50M§Δ	100nØ			1.0uØ	100 Ø	5.0 Ø	100mØ	20 Δ				N-PL	Si	200J	TO3	CØ
102	USAF511ES036P	50.0M§Δ	100n	80n	4.0u	500n	600m	10 Ø	2.0mΔ	120 Ø	100	35pØ		N-PL	Si	200J	TO39	Ø
103	USAF520ES070M	50.0M§Δ	100nØ		450n	85n	438m	10 Ø	1.0mØ	90 Ø	3.3	38pØ		PE	Si	200J	u26a	
104	2N1508	50M§Δ	130nØ			320nØ	5.0 Ø	3.6 Ø	600mØ	20 #Δ		50pØ		N	Si	175J	TO39	AØ
105	2N1509	50M§Δ	130nØ			320nØ	5.0 Ø	3.6 Ø	600mØ	20 #Δ		50pØ		N	Si	175J	TO39	AØ
106	2N1679	50M§Δ	130nØ			320nØ	5.0 Ø	3.6 Ø	600mØ	40 #Δ		50pØ		N	Si	175J	TO39	AØ
107	2N1680	50M§Δ	130nØ			320nØ	5.0 Ø	3.6 Ø	600mØ	40 #Δ		50pØ		N	Si	175J	TO39	AØ
108	USA55191/33	50.0M§Δ	150nØ			600nØ	5.0 Ø	10 Ø	150mØ	19 Δ#	16	35pØ		N	Si	200S		
109	USAF521ES071M	50.0M§Δ	150nØ		450n	85n	438m	10 Ø	150mØ	120 #Ø	4.0	40pØ		P-PLE	Si	200J	u25	
110	2N1253A	50M§Δ	190nØ		150nØ		800m	10 Ø	150mØ	90 Ø	.10	45p		N	Si	200J	TO5	AØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] fab (Hz)	[2] MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	C1004	50M	225nØ			800nØ	360m	1.0 Ø	150mØ	40 †		25p		N	S	125	TO105	A
2#	2SA311	50.0M	270n				150m	1.0 Ø	400m	60		3.0p		P-D	Ge	75J	TO5	
3	2N5425	50M§△	300nØ			2.0uØ	32 Ø§	10 Ø	500mØ	500 †△		15p$☑		N	Si	200S	R117a	A
4	2N5426	50M§△	300nØ			2.0uØ	32 Ø§	10 Ø	500mØ	1.0k†△		15p$☑		N	Si	200S	R117a	A
5#	BLY30	50.0M§☑	300nØ			1.5uØ	30 Ø	5.0 Ø	2.0 Ø	75 #	500m#	40p		N-DPE	Si	200J	TO59	
6	SE3040	50.0M§	300n	50n	350n	300n	15	2.0 Ø	2.0mØ	75 #	.20 #	45p		N	Si	150J	TO66	CØ
7	SE3041	50.0M§	300n	50n	350n	300n	15	2.0 Ø	2.0mØ	75 #	.20 #	45p		N	Si	150J	TO66	CØ
8	SG0034	50M§△	300n	50n	350n	300n	28 Ø	2.0 Ø	2.0 Ø	10 △		80p$☑		N-DPE	Si	200J	TO59	A
9	USA55191/34	50.0M§△	300nØ			900nØ	2.3	10 Ø	150mØ	40 △#	26	20p☑		N	Si	200J		
10	USAF517ES060M	50.0M§△	300nØ		600n	130n	438m	10 Ø	5.0mØ	180 ☑	7.0	55p☑		PE	Si	200J	u26a	
11#	BUY19	50.0M§△	350nØ			650nØ	20 $	2.0 Ø	500uØ	100 #		35p		N-DPE	Si	200J	TO59	AØ
12	USAF514ES050M	50.0M§△	1000nØ		4.0n	1.0u	2.0	2.0 Ø	10 Ø	90 #☑	150m	800p			Si	150J	X15a	
13#	ST150	60.0M§△			100n†		600m	10 Ø	150mØ	20 #△		25p☑		N-PE	Si		TO5	Ø
14#	MDS34	60.0M§△	60n				60m	500mØ	40mØ	20 △		3.0p☑		P-MD	Ge		TO1	
15	2N2180	60M§△	75n	30n	150n	75n	50m	25 Ø	10mØ	100 △	3.0	6.0p☑		P	Ge	100S	TO24	F
16#	2SC117	60.0M§	75n		150n	50n	2.0	15 Ø	30m	10 △		33p		N-D	Si	175J	TO8	Ø
17#	2SA412	60.0M§	180n	100n	60n	90n	150m	.50	30m	30		12p		P	Ge	85	TO1	
18	B148005	60.0M§△	200n	25n	300n	300n	100 Ø	5.0 Ø	.02mØ	160 #☑	.10			N	Si	175J	TO61	AØ
19	S18200	60.0M§△	250nØ			1.5uØ	2.0 Ø	1.0 Ø	150mØ	300 #	1.7	20p☑		N-PE	Si	200S	TO50	
20	CS696	64.0M△	200n†				1.5 Ø	10 Ø	150mØ	20 #△	10	35p☑		N-D	Si		R97	
21#	2SC109	70.0M§△	60n	60n	60n	60n	600m	2.0 Ø	150mØ	35 †△	3.0	35p☑		N-EM	Si	150J	TO5	
22#	2SA645	70M§	200nØ		600n	800nØ	7.0 Ø	4.0 Ø	300mØ	35 #△	2.0			P-PE†	Si	125J	X51b	P
23#	2SA646	70M§	200nØ		600n	800nØ	7.0 Ø	4.0 Ø	300mØ	20 #△	2.0			P-PE†	Si	125J	X51b	P
24#	2SA647	70M§	200nØ		600n	800nØ	7.0 Ø	4.0 Ø	300mØ	20 #△	2.0			P-PE†	Si	125J	X51b	P
25#	2SC1155	70M§	200nØ		1.0u	1.2uØ	7.0 Ø	4.0 Ø	300mØ	35 #△	2.0			N-PE†	Si	125J	X51b	P
26#	2SC1156	70M§	200nØ		1.0u	1.2uØ	7.0 Ø	4.0 Ø	300mØ	20 #△	2.0			N-PE†	Si	125J	X51b	P
27#	2SC1157	70M§	200nØ		1.0u	1.2uØ	7.0 Ø	4.0 Ø	300mØ	20 #△	2.0			N-PE†	Si	125J	X51b	P
28	SE9020	70.0M§	400nØ		500n†	1.0n	62	5.0 Ø	1.0 Ø	125 #☑		55p		N-DPE	Si	150J	TO3	Ø
29	2N645	75.0M§	6.0n	40n	2.0n	40n	120m	7.0 Ø	5.0m	45 †		2.0p		P-A	Ge	71A	TO9	
30	2N1199A	75M§△	55n		20n	36n	150m	1.0 Ø	20mØ	60 ☑	2.5	3.5p☑		N	Si	150S	TO9	A
31	JAN2N1199A	75.0M§△	55n		20n	35n	150m	1.0 Ø	20mØ	60 ☑	25	2.5p☑		N	Si	150S	R49	
32	2N770	75M§△	70n		20n	40n	150m	1.0 Ø	10mØ	60 ☑	2.5	3.5p☑		N	Si	150S	TO18	A
33	2N772	75M§△	70n		40n	70n	150m	5.0 Ø	20mØ	20 △	2.5	3.5p☑		N	Si	150S	TO18	A
34#	SI341P	80.0M§	50nØ†			50nØ†	600m	5.0 Ø	1.5mØ	45 ☑	12	35p		P-DPL	Si	175J	ZA15	
35#	SI342P	80.0M§	50nØ†			50nØ†	600m	5.0 Ø	1.5mØ	90 ☑	10	35p		P-DPL	Si	175J	ZA15	
36#	SI343P	80.0M§	50nØ†			50nØ†	600m	5.0 Ø	1.5mØ	180 ☑	10	35p		P-DPL	Si	175J	ZA15	
37#	2SC114	80.0M	70n		110n	25n	750m	2.0	200m	20 △		18p		N	Si	150J	TO5	
38	CS718	80.0M△	200n†				1.0 Ø	10 Ø	150mØ	40 #△	10	35p☑		N-D	Si		R97a	
39	TE697	80M△	200n†				1.5 Ø	10 Ø	150mØ	40 #△	10	35p☑		N-D	Si		R97	
40	TE1420	80M△	200n†				1.5 Ø	10 Ø	150mØ	100 #△	10	35p☑		N-D	Si		R97	
41	SG0034A	80M§△	300n	50n	350n	300n	28 Ø	2.0 Ø	2.0 Ø	20 △		80p$☑		N-DPE	Si	200J	TO59	A
42#	BSW66△	80M§	500nØ†			1.0uØ†	5.0 Ø	5.0 Ø	1.0 Ø	15 △	1.0	35p$☑		N-PE	Si	200J	TO5	AØ
43#	BSW67△	80M§	500nØ†			1.0uØ†	5.0 Ø	5.0 Ø	1.0 Ø	15 △	1.0	35p$☑		N-PE	Si	200J	TO5	AØ
44#	BSW68△	80M§	500nØ†			1.0uØ†	5.0 Ø	5.0 Ø	1.0 Ø	15 △	1.0	35p$☑		N-PE	Si	200J	TO5	AØ
45	FT34A	80.0M§△	500nØ			1.0uØ	15 $Ø	2.0 Ø	2.0uØ	85 #☑	120m	60p☑		N-PE	Si	200S	TO59	
46	FT34B	80.0M§△	500nØ			1.0uØ	15 $Ø	2.0 Ø	2.0uØ	210 #☑	120m	80p☑		N-PE	Si	200S	TO59	
47	FT34C	80.0M§△	500nØ			1.0uØ	5.0 Ø	2.0 Ø	2.0uØ	85 #	200m	80p☑		N-PE	Si	200S	TO5	AØ
48	FT34D	80.0M§△	500nØ			1.0uØ	5.0 Ø	2.0 Ø	2.0uØ	210 #	200m	80p☑		N-PE	Si	200S	TO5	AØ
49	D28D10	85.0M§	25nØ		200n	50n	4.0mØ§	2.0 Ø	1 Ø	10 △	1.0	8.0p$		N†	Si	150S	X51	A
50	2N501/18	90.0M§	18n		12n	10n	150m	500mØ	10m	20 △	20		5.0n	P-ME	Ge	100J	TO18	
51#	SI351P	90.0M§	40nØ†			50nØ†	400m	5.0 Ø	1.5mØ	45 ☑	1.9	20p		P-DPL	Si	175J	ZA16	
52#	SI352P	90.0M§	40nØ†			50nØ†	400m	5.0 Ø	1.5mØ	90 ☑	1.9	20p		P-DPL	Si	175J	ZA16	
53#	SI353P	90.0M§	40nØ†			50nØ†	400m	5.0 Ø	1.5mØ	180 ☑	1.9	20p		P-DPL	Si	175J	ZA16	
54#	2SC308	90.0M§	250n		200n	200n	800m	10 Ø	150mØ	65 #	10	10p		N-PL	Si	200J	TO5	AØ
55	2N3216	90.0M§△	350nØ		250n			.22 Ø	200mØ	60 △	1.1	20p☑		P	Ge	100S	TO5	
56	2N2235	100M§△	25nØ			600nØ	10 Ø#	2.0 Ø	500mØ	20 △	2.5			N	Si	150C	TO3	CØ
57#	2SC106	100M§	25n	20n	210n	20n	15 Ø	5.0 Ø	.05m	20	3.0	90p☑	1.8n	N-E	Si	175J	TO8	
58#	2SC107	100M§	25n	20n	210n	20n	15 Ø	5.0 Ø	.05m	20	3.0	90p☑	1.8n	N-E	Si	175J	TO8	
59#	BC194	100M§△	25nØ†			150nØ†	105m*	1.0 Ø	150mØ	20 △#	2.3	8.0p		N-PE†	Si	125J	u30b	D
60	TN237	100M§△	25n	10n	50n	25n	3.0 Ø	10 Ø	150mØ	50 △		8.0p		N-PE	Si	200	TO5	A
61	TN238	100M§△	25n	10n	50n	25n	1.8 Ø	10 Ø	150mØ	50 △		8.0p		N-PE	Si	200	TO18	A
62#	V205	100M§△	35n	29n	300n	15n	1.0 Ø	1.0 Ø	50mØ	40 #		8.0p		P-DPE	Si	175A	TO18	AØ
63	2N771	100M§△	40n		25n	40n	150m	1.0 Ø	20mØ	30 △	2.5	3.5p☑		N	Si	150S	TO18	A
64	2N1663	100M§△	40n		25n	40n	150m	1.0 Ø	20mØ	150 ☑	2.5	3.5p☑		N	Si	150S	TO9	A
65#	BSS43	100M§	40nØ†			700nØ†	5.0 Ø	5.0 Ø	1.0 Ø	35 #		10p$		N-PE	Si	200J	TO39	AØ
66#	BSV83	100M§	40n	100n	250n	100n	800m	500mØ	150mØ	70		25p		P	Si	200	TO39	A
67	2N3450	100M§△	50n	50n	150n	85n	600m	1.0 Ø	150mØ	120 #☑	3.3	15p☑		N	Si	200S	TO5	Ø
68	NS9210	100M§	50n	50n	80n	40n	50	15 Ø	100mØ	30	1.5	30p		N-PE	Si	175	TO61	
69	NS9211	100M§	50n	50n	80n	40n	50	15 Ø	100mØ	30	1.5	30p		N-PE	Si	175	TO61	
70	TQ59A	100M§△	50n	10n	450n	120n	3.0 Ø	10 Ø	150mØ	100 △	20	10p☑		P-PE	Si	200J	TO5	A
71	TQ60A	100M§△	50n	10n	450n	120n	1.8 Ø	10 Ø	150mØ	100 △	20	10p☑		P-PE	Si	200J	TO18	A
72	TQ61A	100M§△	50n	10n	450n	120n	3.0 Ø	10 Ø	150mØ	50 △	20	10p☑		P-PE	Si	200J	TO5	A
73	TQ62A	100M§△	50n	10n	450n	120n	1.8 Ø	10 Ø	150mØ	50 △	20	10p☑		P-PE	Si	200J	TO18	A
74	TQ63A	100M§△	50n	10n	450n	120n	3.0 Ø	10 Ø	150mØ	25 △	20	10p☑		P-PE	Si	200J	TO5	A
75	TQ64A	100M§△	50n	10n	450n	120n	1.8 Ø	10 Ø	150mØ	25 △	20	10p☑		P-PE	Si	200J	TO18	A
76#	BLY10	100M§	55n†	70n†	280n†	105n†	10 Ø	1.6 Ø	100mØ	22		25p		N-PL	Si	150	TO3	
77	2N1959A/51	100M§	60nØ		25n	45nØ	300m	10 Ø	1	25 †△		14p☑		N-D	Si	200J	TO51	
78#	MDS31	100M§△	60n				60m	300mØ	20mØ	30 △				P-MD	Ge		TO1	
79#	MDS36	100M§△	60n				60m	300mØ	10mØ	30 △		3.0p☑		P-MD	Ge		TO18	Ø
80	2N1958/18	100M§△	65nØ		25n	20n	300m	10 Ø	150m	40	3.0	18p☑		N-E	Si	175J	TO18	
81	2N1959/18	100M§△	65nØ		25n	20n	300m	10 Ø	150m	40	3.0	18p☑		N-E	Si	175J	TO18	
82	2N1964	100M§△	65nØ		25n	45nØ	400m	10 Ø	150mØ	60 △	3.0	18p☑		N	Si	175J	TO46	AØ
83	2N1964/46	100M§△	65nØ		25n	45nØ	400m	10 Ø	150mØ	40	3.0	18p☑		N-E	Si	300S	TO46	
84	2N1965	100M§△	65nØ		25n	45nØ	400m	10 Ø	150mØ	120 ☑	3.0	18p☑		N	Si	175J	TO46	AØ
85	2N1965/46	100M§△	65nØ		25n	20n	400m	10 Ø	150mØ	40 △	3.0	18p☑		N-E	Si	175J	TO46	
86	2N2927/51	100M§△	75nØ			170nØ	300m	1.0 Ø	50mØ	30 †△	3.0	20p☑		P-PE	Si	200J	TO51	
87	USAF515ES045M	100M§△	75nØ		150n	50n	350m	1.0 Ø	50mØ	20 △	15	8.0p☑		P-PLE	Si	200J	X34	
88	USAF515ES046M	100M§△	75nØ				350m	1.0 Ø	50mØ	20 △	15	8.0p☑		P-PLE	Si	200J	X34	
89	RT1116	100M	80n		130n	55n	800m	1.0 Ø	150mØ	30 △	4.6	15p☑		N-PE	Si	200J	TO5	Ø
90	RT1115	100M	85n		100n	55n	800m	1.0 Ø	150mØ	120 ☑	3.3	15p☑		N-PE	Si	200J	TO5	Ø
91	USAF516ES047M	100M§△	100nØ		200n	80n	350m	1.0 Ø	10mØ	30 △	15	8.0p☑		P-PLE	Si	200J	X34	
92	USAF516ES048M	100M§△	100nØ				350m	1.0 Ø	50mØ	20 △	15	8.0p☑		P-PLE	Si	200J	X34	
93#	2SC108	100M§△	110n		100n	110n	600m	2.0 Ø	150mØ	35	4.0	35p☑		N-EM	Si	150J	TO5	
94#	BFY15	100M§	120nØ		300n	1.0uØ	600m	2.5 Ø	200mØ	20		48p☑		N-PLØ	Si	150A	TO5	Ø
95	2N1444	100M	250nØ			250nØ	500m	5.0 Ø	250m	25		32p		N-ME	Si	150J	TO29	
96#	C434	100M§	250nØ			600nØ	10 $	2.0 Ø	2.0 Ø	30 #△	150m	40p		N-DPE	Si	150J	TO3	Ø
97#	CP408	100M§	250nØ†			500n†Ø	10 $Ø	10 Ø	2.0 Ø	120 #				N-DPE	Si	150J	TO3	Ø
98	PT6905	100M§	350nØ†			1.0uØ†	175 Ø	5.0 Ø	10 Ø	15 △		600p		N	Si	200A	TO63	
99#	BUY16	100M§	500nØ			1.0uØ	15 Ø	2.0 Ø	2.0 Ø	85 #	120m	35p		N-DPE	Si	200J	TO59	Ø
100#	BUY17	100M§	500nØ			1.0uØ	15 Ø	2.0 Ø	2.0 Ø	10 #	120m	35p		N-DPE	Si	200J	TO59	Ø
101#	CP406	100M§	500nØ			1.0uØ	10 $	10 Ø	5.0 Ø	70 #				N-DPE	Si	150J	TO3	Ø
102#	CP407	100M§	500nØ			1.0uØ	10 $Ø	10 Ø	2.0 Ø	100 #				N-DPE	Si	150J	TO3	Ø
103	PT6905A	100M§△	500nØ			1.0uØ	175 Ø	5.0 Ø	10 Ø	15 △	100m	700p☑		N-PL	Si	200J	TO63	AØ
104	PT6905B	100M§△	500nØ			1.0uØ	175 Ø	5.0 Ø	10 Ø	15 △	100m	700p☑		N-PL	Si	200J	TO61	A
105	PT6905C	100M§△	500nØ			1.0uØ	175 Ø	5.0 Ø	10 Ø	15 △	100m	700p☑		N-PL	Si	200J	TO3	CØ
106	MM2261	100M§△	1.0u			1.0u	5.0 Ø	10 Ø	300mØ	25 △	3.3	12p☑		NAN	Si	200J	TO5	AØ
107	MM2262	100M§△	1.0u			1.0u	5.0 Ø	10 Ø	500mØ	25 △	2.0	12p☑		NAN	Si	200J	TO5	AØ
108	MM2263	100M§△	1.0u			1.0u	5.0 Ø	10 Ø	750mØ	25 △	1.3	12p☑		NAN	Si	200J	TO5	AØ
109#	2G106	120M§	1.35n$	16n▼	70n		150m	250mØ	10mØ	30 △	25	5.0p		P-ME	Ge	100A	TO18	
110	T1905	120M§	18n		12n	10n	40m	.50 Ø	50mØ	20 △	5.0	5.0p☑		P	Ge	85S	TO9	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	2N2799	120M§△	25n	20n	140n	30n	75m	30 Ø	10mØ	50	20	2.5p		P-D	Ge	100S	TO9	
2	2N2943	120M§△	25n	20n	140n	30n	150m	50 Ø	50mØ	45	5.0	4.0pØ		P-D	Ge	100S	TO9	
3	2N2800/51	120M§△	45n	15n	225n	45n	300m	10 Ø	150mØ	90 Ø		25p		P-E	Si	200J	TO51	
4	2N2801/51	120M§△	45n	15n	225n	45n	300m	10 Ø	150mØ	225 Ø		25p		P-E	Si	200J	TO51	
5	2N1675	120M§△	1.0uØ			5.0uØ	100 ØΔ	10 Ø	1.0 Ø	25 Δ	500m			N	Si	150C	TO32	AØ
6	S18100	130M§△	75nØ			170nØ	2.0 Ø	1.0 Ø	50mØ	30 Δ#	3.3	10pØ		P-PE	Si	200S	TO50	
7#	BSW20	130M§△	150nØ		1.0u	800nØ	235m*	1.0 Ø	50mØ	35 Δ#	30	6.0p$Ø		P-PE	Si	150J	u69	F
8	D29A10	140M§△	70n	25n	100n	70n	330m	10 Ø	2.0mØ	32 Δ		8.0p$Ø		P-PE	Si	125J	TO98	B
9	D29A11	140M§△	70n	35n	140n	70n	330m	10 Ø	2.0mØ	80 Δ		8.0p$Ø		P-PE	Si	125J	TO98	B
10	2N1837B	140M§	200nØ		500nØ		800m	10 Ø	150m	40 *Δ		18pØ		N	Si	200J	TO5	
11	2N2942	150M§△	20n	15n	120n	25n	150m	50 Ø	50m	65	4.0	3.5pØ		P-D	Ge	100S	TO9	
12#	2SC912	150M§	20n	5.0n	100n	40n	150m	6.0 Ø	10mØ	90 #	35	2.5p	100n	N-PE	Si	150J	R126	A
13	FK3502	150M§△	40nØ			100nØ	350mØ	10 Ø	10mØ	270 #	2.7	8.0pØ		P-PE	Si	200S	u17b	
14	FK3503	150M§△	40nØ			100nØ	350mØ	10 Ø	10mØ	270 #	2.7	8.0pØ		P-PE	Si	200S	u17b	
15	FV3502	150M§△	40nØ			100nØ	350mØ	10 Ø	10mØ	270 #	2.7	8.0pØ		P-PE	Si	200S	u5b	
16	FV3503	150M§△	40nØ			100nØ	350mØ	10 Ø	10mØ	270 #	2.7	8.0pØ		P-PE	Si	200S	u5b	
17#	BSW92	150M§△	50n†	20n†	200n†	50n†	300m†	4.5 Ø	2.0mØ	30 Δ	6.0	8.0pØ		N-E	Si	125J	R110	A
18#	SFT713	150M§△	50n†	20n†	400n	25n†	300m	4.5 Ø	2.0mØ	90 Ø	600m	5.0p		N-E	Si	175A	R38w.	Ø
19	2N3081/51	150M§△	60nØ			175nØ	300m	10 Ø	150mØ	30 †Δ	2.0	13pØ		P-PE	Si	200J	TO51	
20	2N3400	150M§△	60n	30n	200n	60n	150m	50 Ø	50mØ	300 Ø	4.0	3.0pØ		P	Ge	100S	TO9	
21#	2SC621	150M§	60n		120n	30n	150m	6.0 Ø	10mØ	75 #	60	2.5p	100n	N-PE	Si	150J	R126	A
22#	2SC621A	150M§	60nØ		120n	30n	150m	6.0 Ø	10mØ	75 †#		2.5p	50p	N-PE	Si	150J	R107c	
23#	2SC868	150M§	60nØ		120n	30n	200m	6.0 Ø	1.0mØ	35 Δ				N-PE	Si	125J	X20e	B
24	NS6207	150M§△	60nØ			60nØ	150m	1.0 Ø	150mØ	30 #Δ	3.3	8.0pØ		N-E	Si	150	X16	
25	2N2718	150M§△	100nØ		250nØ		240m	27 Ø	170mØ	25 Δ		10pØ		P	Ge	100S	TO5	
26#	BFY16	150M§	120nØ		300n	1.0uØ	600m	2.5 Ø	200mØ	36		48pØ		N-PLØ	Si	150A	TO5	Ø
27#	BLY11	150M§	120nØ†		300n†		10 Ø	2.5 Ø	100mØ	40		25p		N-PL	Si	150	TO3	
28#	2SA363	150M§	200n		300n	100n	100m	3.0 Ø	20mØ	80	30	6.0pØ		P-ME	Ge	85J	TO44	
29	2N5242	170M§△	30n	15n	65n	30n	500m	1.0 Ø	50mØ	100 †#Ø				P	Si	125S	TO105	A
30	2N1500/18	175M§	13n				60m	500mØ	10m	70		1.5p		P-MD	Ge	100S	TO18	
31	40450	175M§	50n	25n	500n	75n	1.0	12 Ø	10mØ	175 †	1.2	20p$Ø	20n†	N-PE†	Si	175J	R119	
32	40451	175M§	50n	25n	500n	75n	1.0	12 Ø	10mØ	200 †	1.0	20p$Ø	20n†	N-PEØ	Si	175J	R119	
33#	2SC112	180M	50n		110n	17n	750m	2.0 Ø	200m	125 Ø		7.0p		N	Si	175	TO5	
34#	2SC113	180M	50n		110n	17n	750m	2.0 Ø	200m	125 Ø		7.0p		N	Si	175	TO5	
35#	BCW60A	180M§	50n†	35n†	400n†	80n†	150m*	5.0 Ø	2.0mØ	170	25	4.5p$Ø		N-PEØ†	Si	150J	u56a	A
36#	BCW60B	180M§	50n†	35n†	400n†	80n†	150m*	5.0 Ø	2.0mØ	250	25	4.5p$Ø		N-PEØ†	Si	150J	u56a	A
37#	BCW60C	180M§	50n†	35n†	400n†	80n†	150m*	5.0 Ø	2.0mØ	350	25	4.5p$Ø		N-PEØ†	Si	150J	u56a	A
38#	BCW60D	180M§	50n†	35n†	400n†	80n†	150m*	5.0 Ø	2.0mØ	500	25	4.5p$Ø		N-PEØ†	Si	150J	u56a	A
39#	BCW61A	180M§	50n†	35n†	400n	80n†	150m*	5.0 Ø	2.0mØ	170	25	6.0p$Ø		P-PEØ†	Si	150J	u56a	A
40#	BCW61B	180M§	50n†	35n†	400n	80n†	150m*	5.0 Ø	2.0mØ	250	25	6.0p$Ø		P-PEØ†	Si	150J	u56a	A
41#	BCW61C	180M§	50n†	35n†	400n	80n†	150m*	5.0 Ø	2.0mØ	350	25	6.0p$Ø		P-PEØ†	Si	150J	u56a	A
42#	BCW61D	180M§	50n†	35n†	400n	80n†	150m*	5.0 Ø	2.0mØ	500	25	6.0p$Ø		P-PEØ†	Si	150J	u56a	A
43	RT719M	180M	80n†				400m	10 Ø	150mØ	30 #	5.3	14p		N-PL	Si	175J	TO46	
44	2N706/51	200M§△			60n		300m	1.0 Ø	10mØ	20 †Δ	60	6.0pØ		N-E	Si	175J	TO51	
45	TI485	200M		175n♦			300m	10 Ø	10m	38	65	6.0pØ		N-ME	Si	150J	TO18	AØ
46	TIS44	200M§△			60n		250m	1.0 Ø	10mØ	20 #Δ		6.0pØ		P-E	Si	150J	TO92	
47#	BSY33	200M§△	10n†	27nØ	130nØ	16n†	100m	2.0 Ø	10mØ	55		4.0p		N-PE S	i	100J	u18	
48#	BSY32	200M§△	12n†	27nØ	130nØ	16n†	100m	2.0 Ø	10mØ	32		4.0p		N-PE S	i	100J	u18	
49#	BSY47	200M§△	12n†	27nØ	130nØ	16n†	100m	2.0 Ø	10mØ	32		4.0p		N-PE S	i	100J	u19	
50	2N1962	200M§△	18nØ		10n	30nØ	400m	1.0 Ø	10mØ	80 Ø	25	3.5pØ		N	Si	175J	TO46	AØ
51	2N1962/46	200M§	18nØ		10n	30nØ	400m	1.0	10mØ	20 Δ				N-E	Si	175J	TO46	Ø
52	2N717A	200M§	20n				1.8 Ø							N-PL	Si		TO18	Ø
53	2N1963	200M§△	20nØ		15n	40nØ	400m	1.0 Ø	10mØ	25 Δ	19	3.5pØ		N	Si	175J	TO46	AØ
54	2N1963/46	200M§△	20nØ		15n	25n	400m	1.0 Ø	10mØ	25 Δ	19	3.5pØ		N-E	Si	175J	TO46	
55#	2SC641H	200M§△	20nØ†		30n	20nØ†	100m	1.0 Ø	10mØ	200 Ø*		6.0pØ		N-E†	Si	125J	MM12c	A
56#	2SC841H	200M§△	20nØ†		30n	20nØ†	100m	1.0 Ø	10mØ	200 Ø		6.0pØ		N-PE	Si	175		
57	FT5040	200M§	23nØ			200nØ	4.0 Ø	1.0 Ø	10mØ	25 Δ#		35p$Ø		P-PEØ	Si	125J	TO105	A
58#	2SA247	200M	30n		450n	70n	100m	3.0	20m	125		5.5p		P	Ge	85	TO44	
59#	BSX97	200M§△	30nØ†			200nØ†	400m	10 Ø	150mØ	40 Δ#	3.0	5.0p		N-PE	Si	175A	TO18	Ø
60	FT5041	200M§	30nØ			250nØ	4.0 Ø	1.0 Ø	10mØ	30 Δ#		35p$Ø		P-PEØ	Si	125J	TO105	A
61	LDS208	200M§△	30nØ†			225nØ†	360m	10 Ø	150mØ	100 Δ#		8.0p$Ø		N-PE	Si	150J	u34c	P
62	MM3724	200M§△	30nØ			50nØ	1.0	2.0 Ø	500mØ	25 Δ		9.0p$Ø		N-EA	Si	200J	TO5	AØ
63	MM3725	200M§△	30nØ			50nØ	1.0	2.0 Ø	500mØ	25 Δ		9.0p$Ø		N-EA	Si	200J	TO5	AØ
64	TIS113	200M§△	30n	10n	50n	25n	1.2 Ø	1.0 Ø	300mØ	40 Δ		12pØ		N-PE†	Si	150S	X55	A
65	TIS114	200M§△	30n	10n	50n	25n	1.2 Ø	1.0 Ø	300mØ	35 Δ		12pØ		N-PE†	Si	150S	X55	A
66	TIS115	200M§△	30n	10n	50n	30n	1.2 Ø	1.0 Ø	300mØ	40 Δ		10pØ		N-PE†	Si	150S	X55	A
67	TIS116	200M§△	30n	10n	50n	30n	1.2 Ø	1.0 Ø	300mØ	35 Δ		10pØ		N-PE†	Si	150S	X55	A
68	2N5735	200M§△	35n	25n	300n	25n	360m	10 Ø	150mØ	40 Δ#		8.0p$Ø		N	Si	150S	TO122	P
69	2N5736	200M§△	35n	25n	300n	25n	360m	10 Ø	150mØ	100 Δ#		8.0p$Ø		N	Si	150S	TO122	P
70	GI3644	200M§	35n	25n	70n	50n	300m	10 Ø	1.0mØ	80	50	8.0pØ			Si	125	TO18	A
71	TE3905	200M§△	35n	35n	200n	60n	310m	1.0 Ø	100uØ	30 #Δ		4.5pØ		PØ	Si	135J	TO106	A
72	2N706A/46	200M§△	40nØ		25n	50n	400m	1.0 Ø	10mØ	20 †Δ	60	5.0pØ		N-E	Si	175J	TO46	
73	2N706A/51	200M§△	40n		25n	50n	300m	1.0 Ø	10mØ	20 †Δ	60	5.0pØ		N-E	Si	175J	TO51	
74	2N706B/46	200M§△	40nØ		25n	50n	400m	1.0 Ø	10mØ	20 †Δ	40	5.0pØ		N-E	Si	175J	TO46	
75	2N706C/46	200M§△	40nØ		25n	50n	400m	1.0 Ø	10mØ	20 †Δ	40	5.0pØ		N-E	Si	200J	TO46	
76	2N706C/51	200M§△	40nØ		25n	50n	300m	1.0 Ø	10mØ	20 †Δ	40	5.0pØ		N-E	Si	200J	TO51	
77	2N753/51	200M§△	40nØ		35n	50n	300m	1.0 Ø	10mØ	40 †Δ	60	5.0pØ		N-E	Si	175J	TO51	
78	2N2397	200M§△	40nØ		25n	70nØ	800mØ	1.0 Ø	10mØ	25 Δ	30	5.0pØ		N	Si	200J	TO51	A
79	40218	200M§△	40nØ	25n$		75nØ	300m	1.0 Ø	10mØ	20 †Δ		5.0pØ		N	Si	175	TO52	Ø
80	40222	200M§△	40nØ	25n$		75nØ	300m	1.0 Ø	10mØ	20 †Δ		6.0pØ		N	Si	175	TO52	Ø
81	A3T2906	200M§△	40n	10n	85n	35n	225m	10 Ø	150mØ	120 Ø#		12pØ		P-PE†	Si	150S	u4	A
82	A3T2906A	200M§△	40n	10n	85n	35n	225m	10 Ø	150mØ	120 Ø#		12pØ		P-PE†	Si	150S	u44	A
83	A3T2907	200M§△	40n	10n	85n	35n	225m	10 Ø	150mØ	300 Ø#		12pØ		P-PE†	Si	150S	u44	A
84	A3T2907A	200M§△	40n	10n	85n	35n	225m	10 Ø	150mØ	300 Ø#		12pØ		P-PE†	Si	150S	u44	A
85#	BSW12	200M§△	40nØ			80nØ	50m*	1.0 Ø	10mØ	150 Ø	40	6.0pØ		N-PE†	Si	125J	u47a	D
86	FT3644	200M§△	40nØ			100nØ	3.0 Ø	10 Ø	150mØ	150 #		8.0p$Ø		P-DPE	Si	125J	R124c	A
87	FT3645	200M§△	40nØ			100nØ	3.0 Ø	10 Ø	150mØ	150 #		8.0p$Ø		P-DPE	Si	125J	R124c	A
88	FT3838	200M§△	40n	10n	250n	90n	350m	10 Ø	150mØ	100 Δ#		8.0pØ		D-PEØ	Si	200J	TO89	
89#	BSS25	200M§△	45nØ		100nØ		150m	10 Ø	150mØ	40 Δ		8.0pØ		P-PE	Si	150J	u56a	A
90	MD1T2907	200M§	45nØ		80n	100nØ	400m	10 Ø	150mØ	100 #Δ		8.0pØ		P	Si	150A	TO122	P
91	USA55191/35	200M§△	50nØ			60nØ	700m	700mØ	8.0mØ	20 Δ	13	6.0pØ		N	Si	200J		
92#	BC214LA	200M§△	60nØ†			30nØ†	300m			140 Δ†		10pØ		PEØ	Si	150S	TO92	B
93	FK3299	200M§△	60nØ			150nØ	350mØ	10 Ø	150mØ	40 Δ#	1.2	8.0pØ		N-PE	Si	300S	u17b	
94	FV3299	200M§△	60nØ			150nØ	350mØ	10 Ø	150mØ	40 Δ#	1.2	8.0pØ		N-PE	Si	300S	u5b	
95	NS949	200M§△	60nØ		100nØ		5.0 Ø	2.0 Ø	500mØ	10 Δ		2.3p	12n	N-E	Si	200A	TO46	
96	NS950	200M§△	60nØ		70nØ		5.0 Ø	2.0 Ø	500mØ	15 Δ		2.3p		N-E	Si	200A	TO46	
97	S18000	200M§△	70nØ			150nØ	3.0 Ø	1.0 Ø	100mØ	40 #Δ	3.2	8.0pØ		P-PE	Si	200S	TO5	
98#	2SC479H	200M§△	100nØ			80nØ	650m	1.0 Ø	100mØ	130 Ø		20pØ		N-PE	Si	175J	TO5	A
99#	BSW10	200M§△	100nØ			350nØ	2.2 Ø*	10 Ø	1.0mØ	25 Δ	2.6	10pØ		N-PE	Si	175J	TO5	AØ
100	ST30100	200M§△	100nØ			500nØ	5.0 Ø	10 Ø	50mØ	100 Δ	15	10pØ		P-PEØ	Si	200A	TO5	AØ
101	NS2100	200M§	125nØ		225nØ		500m	10 Ø	10mØ	40 Δ		10pØ		N	Si	200J	TO18	Ø
102	NS2101	200M§	125nØ		225nØ		800m	10 Ø	10mØ	40 Δ		10pØ		N	Si	200J	TO5	
103#	BSW88	200M§△	150nØ			800nØ	230m*	1.0 Ø	10mØ	750 Ø*	20	6.0pØ		N-PE	Si	125J	X73	C
104#	BSW89	200M§△	150nØ			800nØ	230m*	1.0 Ø	10mØ	750 Ø*	20	6.0pØ		N-PE	Si	125J	X73	A
105#	BSX81	200M§△	150nØ			800nØ	230m*	1.0 Ø	10mØ	750 Ø*	20	6.0pØ		NPE	Si	125J	MM11	A
106#	BSX81A	200M§△	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0pØ		N-PE†		150J	MM11	A
107#	BSX81B	200M§△	150nØ			800nØ	300m	1.0 Ø	50 Ø	75 Δ	20	5.0pØ		N-PE†		150J	MM11	A
108	2N2797	235M§	20n	15n	120n	25n	75m	30 Ø	10mØ	80	15	2.5p		P-D	Ge	100S	TO9	
109	2N2798	235M§	25n	20n	140n	30n	75m	30 Ø	10mØ	50	20	2.5p		P-D	Ge	100S	TO9	
110#	2SC317H	240M§	45n†	130n†	350n†	65n†	350m	6.0 Ø	10mØ	80 *		10pØ		N-PM S	i	175J	TO1	A

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	LDS206	250M					360m	5.0 Ø	1.0mØ	100		6.0p		N	Si	150J	TO122	P
2	2N3982	250M§△	15n	15n	25n	15n	3.0 Ø	1.0 Ø	150mØ	140 ☑	2.7	8.0p☑		N	Si	200J	TO5	Ø
3#	BSV85	250M§	15n	45n	110n	40n	360m	10 Ø	150mØ	80		8.0p		N	Si	200	TO18	A
4	TIS82	250M§△	15n	10n	15n	15n	1.0	5.0 Ø	1.0 Ø	25		12p$☑		N	Si	175J	TO5	
5	A3T2221	250M§△	16n†	7.0n†	130n†	20n†	225m	10 Ø	150mØ	120 #☑		8.0p☑		N-PE	Si	150S	u44	A
6	A3T2222	250M§△	16n†	7.0n†	160n†	20n†	225m	10 Ø	150mØ	300 #☑		8.0p☑		N-PE	Si	150S	u44	A
7#	MDS33C	250M§△	18n		12n	10n	60m	5.0 Ø	10mØ	6.2 †△		4.0p☑		P-MD	Ge		TO1	
8	2N3981	250M§△	20n	15n	30n	10n	3.0 Ø	1.0 Ø	150mØ	120 ☑	2.7	8.0p☑		N	Si	200J	TO5	Ø
9	A3T2221A	250M§△	25n	10n	225n	60n	225m	10 Ø	150mØ	120 #☑		8.0p☑		N-PE†	Si	150S	u44	A
10	FM2242	250M§△	30nØ			50nØ	350m	1.0 Ø	10mØ	40 △	7.0	6.0p☑		N	Si	200	TO46	Ø
11	2N3131	250M	35nØ	10n	25n	75nØ	150m	1.0 Ø	10mØ	120 ☑	25	4.0p☑		N-P	Si	150J	X16	
12	MM1756	250M§△	35nØ			285nØ		10 Ø	150mØ	40 △		8.0p☑		N	Si		TO46	
13	S17900	250M§△	35nØ			65nØ	3.0 Ø	1.0 Ø	100mØ	90 #☑	1.0	10p☑		N-PE	Si	200S	TO5	AØ
14	TE3903	250M	35n	35n	175n	50n	310m	1.0	10m	50	20	4.0p		N	Si	135J	R97a	
15	TE3906	250M§△	35n	35n	225n	75n	1.0 Ø	1.0 Ø	10mØ	300 ☑	25	4.5p☑		P-DPLØ	Si	150J	R97a	A
16#	2SC103A	250M§	40nØ		500n	60n	250m	1.0 Ø	10mØ	40 △		4.0p		N-PL	Si	175J	TO18	
17#	FM2846	250M§△	40nØ			40nØ	800m	10 Ø	150mØ	30 †△	3.2	8.0p☑		N-PE	Si	200J	TO46	Ø
18	TA2626	250M§△	40nØ			80nØ	800m	1.0 Ø	100mØ	30 △	800m	12p☑		N-DPE	Si	200J	TO5	Ø
19	TA2750	250M§△	40nØ			60nØ	800m	1.0 Ø	100mØ	30 △	800m	12p☑		N-DPE	Si	200J	TO5	Ø
20	TE4951	250M§△	40nØ		350nØ		360m	10 Ø	10mØ	40 #△		8.0p$☑		N	Si	150S	TO106	A
21	TE4952	250M§△	40nØ		350nØ		360m	10 Ø	10mØ	75 △		8.0p$☑		N	Si	150S	TO106	A
22	TE4953	250M§△	40nØ		400nØ		360m	10 Ø	10mØ	150 △		8.0p$☑		N	Si	150S	TO106	A
23	TE4954	250M§△	40nØ		400nØ		360m	10 Ø	10mØ	40 △		8.0p$☑		N	Si	150S	TO106	A
24	TE5368	250M§△	40nØ			350nØ	360m	10 Ø	10mØ	40 #△		8.0p$☑		N	Si	150J	TO106	A
25	TE5369	250M§△	40nØ			350nØ	360m	10 Ø	10mØ	75 △#		8.0p$☑		N	Si	150J	TO106	A
26	TE5370	250M§△	40nØ			400nØ	360m	10 Ø	10mØ	150 #△		8.0p$☑		N	Si	150J	TO106	A
27	TE5371	250M§△	40nØ			400nØ	360m	10 Ø	10mØ	40 #△		8.0p$☑		N	Si	150J	TO106	A
28#	2SC97	250M§	50nØ		100n	150nØ	800m	10 Ø	150mØ	60 #		20p☑		N-PE	Si	175J	TO5	
29#	96EP	250M§△	50nØ			100nØ	250m	5.0 Ø	150mØ	30 #△	33	10p☑		N-PE†	Si	125J	u46	A
30	FK3300	250M§△	60nØ			150nØ	350mØ	10 Ø	150mØ	100 △#	1.2	8.0p☑		N-PE	Si	300S	u17b	
31	FT3641	250M§△	60nØ			150nØ	3.0 Ø	10 Ø	500mØ	62 #		8.0p☑		N-DPE	Si	125J	R124c	A
32	FT3642	250M§△	60nØ			150nØ	3.0 Ø	10 Ø	500mØ	62 #		8.0p☑		N-DPE	Si	125J	R124c	A
33	FT3643	250M§△	60nØ			150nØ	3.0 Ø	10 Ø	500mØ	125 #		8.0p☑		N-DPE	Si	125J	R124c	A
34	FV3300	250M§△	60nØ			150nØ	350mØ	10 Ø	150mØ	100 △#	1.2	8.0p☑		N-PE	Si	300S	u5b	
35	USAF522ES067M	250M§△	60nØ			60nØ	350m	1.0 Ø	70mØ	15 #	6.4			N-PLE	Si	200J	X34	
36	USAF522ES075M	250M§△	60nØ			60nØ	350m	1.0 Ø	70mØ	20 #	6.4			N-PLE	Si	200J	X34	
37	USAF523ES077M	250M§△	60nØ			60nØ	350m	1.0 Ø	70mØ	15 #	6.4			N-PLE	Si	200J	X34	
38	USAF523ES078M	250M§△	60nØ			60nØ	350m	1.0 Ø	70mØ	15 #	6.4			N-PLE	Si	200J	X34	
39	GI3638	250M§	70n	20n	140n	70n	300m	1.0 Ø	50mØ	30		20p☑		P-E	Si	125	R97d	
40	GI3638A	250M§	70n	20n	140n	70n	300m	1.0 Ø	50mØ	100		10p☑		P-E	Si	125	R97d	
41#	BFW71	250M§△	100nØ†			500nØ†	1.5 Ø	10 Ø	100uØ	30 #△		15p☑		N-DPL	Si	200J	TO18	AØ
42#	ST501	270M§△			25n		300m	1.0 Ø	10mØ	22 △				N-PE	Si		TO18	Ø
43#	ST502	270M§△			25n		300m	1.0 Ø	10mØ	50 △				N-PE	Si			
44	D32K1	275M§△	25n	20n	70n	30n	500m	1.0 Ø	100mØ	50 △		8.0p$☑		N	Si	150J	X55a	B
45	D32K2	275M§△	25n	20n	70n	30n	500m	1.0 Ø	100mØ	50 △		8.0p$☑		N	Si	150J	X55a	B
46#	BSW13	280M§△	20nØ		20n	40nØ	160m	350mØ	10mØ	300 †☑	30	5.0p☑		NPE	Si	125J	u32	
47#	MDS38	280M§△	30n				50m	500mØ	10mØ	20 △		4.0p☑		P-MD	Ge		TO18	Ø
48	2N1992	300M§			20n		350m	500mØ	1.0m	45 †	9.0	5.0p☑		N-E	Si	200J	TO18	Ø
49#	2S95A	300M§△			25n		300m	350mØ	10mØ	200 ☑		6.0p☑		N-A	Si	200S	TO18	Ø
50#	2SC405	300M§			65n		150m	300mØ	10m	40		5.0p		P-ME	Ge	100J	TO18	
51#	ST02	300M§△			200n		360m	1.0 Ø	10mØ	20 △		6.0p☑		N-PE	Si		TO18	Ø
52#	ST03	300M§△			200n		360m	1.0 Ø	10mØ	20 △		6.0p☑		N-PE	Si		TO18	Ø
53#	ST04	300M§△			200n		360m	1.0 Ø	10mØ	40 △		6.0p☑		N-PE	Si		TO18	Ø
54#	ST05	300M§△			200n		360m	1.0 Ø	10mØ	100 △		6.0p☑		N-PE	Si		TO18	Ø
55#	ST51	300M§△			130n		300m	350mØ	10mØ	40 △		6.0p☑		N-PL	Si		TO18	Ø
56#	ST55	300M§△			25n		300m	1.0 Ø	10mØ	40 △		6.0p☑		N-PE	Si		TO18	Ø
57#	ST56	300M§△			25n		300m	1.0 Ø	10mØ	40 △		6.0p☑		N-PE	Si		TO18	Ø
58#	ST57	300M§△			25n		300m	500mØ	10mØ	40 △		6.0p☑		N-PE	Si		TO18	Ø
59#	ST63	300M§△			16n		125m	350mØ	5.0mØ	40 #△		5.0p☑		N-PE	Si		TO18	Ø
60	TIS45	300M§△			25n		360m	1.0 Ø	10mØ	120 #☑	40	6.0p☑		P-E	Si	150J	TO92	
61#	ZT190	300M§△			150n		300m	400mØ	1.0mØ	30		6.0p		N-PL	Si	175A	TO18	Ø
62#	ZT191	300M§△			300n		300m	400mØ	1.0mØ	30		10p		N-PL	Si	175A	TO18	Ø
63#	ZT192	300M§△			200n		300m	400mØ	1.0mØ	30		6.0p		N-PL	Si	175A	TO18	Ø
64#	ZT193	300M§△			200n		300m	400mØ	1.0mØ	50		6.0p		N-PL	Si	175A	TO18	Ø
65#	2G104	300M	4.0n				150m	5.0 Ø	10m	40				P-ME	Ge	100J	TO18	
66#	BLY37	300M§△	5.0n†	20nØ	30nØ	13n†	100m	2.0 Ø	10mØ	54		3.5p		N-PE	Si	100J	MT59e	S
67#	BSY37	300M§△	5.0n†	20nØ	30nØ	13n†	100m	2.0 Ø	10mØ	54		3.5p		N-PE S	i	100J	u18	
68#	BSY50	300M§△	5.0n†	20nØ	30nØ	13n†	100m	2.0 Ø	10mØ	54		3.5p		N-PE	Si	100J	u19	
69#	BSY36	300M§△	7.0n†	20nØ	30nØ	14n†	100m	2.0 Ø	10mØ	34		3.5p		N-PE S	i	100J	u18	
70#	2SC62	300M§△	8.0n	11n	55n	20n	360m	10 Ø	10mØ	3.0 †		6.0p		N-PL	Si	200J	TO18	
71#	2SC340H	300M	12n	2.0n	8.0n	14n	12 Ø	12 Ø	4.0mØ	45				P	Ge	91J	TO3	
72	A344	300M§△	14nØ		16n	45nØ	300m	350mØ	10mØ	120 ☑	60	5.0p☑		N-PE	Si	175J	TO18	A
73	A345	300M§△	14nØ		16n	45nØ	300m	350mØ	10mØ	60 ☑	60	5.0p☑		N-PE	Si	175J	TO18	A
74	A346	300M§△	14nØ		16n	45nØ	300m	350mØ	10mØ	120 ☑	60	5.0p☑		N-PE	Si	175J	TO18	A
75	JAN2N851	300M§△	16nØ			40nØ	300m	350mØ	10mØ	20 △	35	5.0p☑		N	Si	300S	TO50	
76	JAN2N852	300M§△	16nØ			45nØ	300m	350mØ	10mØ	60 △	35	5.0p☑		N	Si	300S	TO50	
77	FK3014	300M§△	16nØ			25nØ	350mØ	400mØ	30mØ	30 △#	3.5	5.0p☑		N-PE	Si	200S	u17b	
78	FV3014	300M§△	16nØ			25nØ	350mØ	400mØ	30mØ	30 △#	3.5	5.0p☑		N-PE	Si	200S	u5b	
79	2N784A/46	300M§	20nØ		15n	25n	360m	40	10m	25	40	3.5p☑		N-E	Si	200J	TO51	
80	2N835/51	300M§△	20nØ			35nØ	300m	1.0 Ø	10mØ	20 †△	30	4.0p☑		N-E	Si	175J	TO51	
81	2N2699	300M§△	20n	25nØ	30n	50n	150m	1.0 Ø	50mØ	40 △	18			P	Ge	100J	TO18	A
82#	2SC468H	300M§△	20n†		30n	30nØ†	200m	1.0 Ø	10mØ	200 *☑		6.0p☑		N-PE	Si	175J	R92b	A
83#	2SC488H	300M§△	20nØ†		30n	30nØ†	200m	1.0 Ø	10mØ	200 ☑		6.0p☑		N-PE	Si	175		
84#	TK258A	300M§	20nØ		20n		300m	0.0	10m	20 △	350		5.0n	N-PE	Si	175J	TO18	
85#	TK259A	300M§	20n		20n		300m	0.0	10m	40 △	350	5.0p		N-PE	Si	175J	TO18	
86	2N2222B	300M§△	25n	10n	225n	60n	1.8 Ø	10 Ø	10mØ	75 △		8.0p☑	.15n	NØ	Si	200S	TO18	AØ
87	40219	300M§△	25n$	25n$			360m	1.0 Ø	10mØ	30 †△		6.0p☑	300p	N	Si	200	TO52	Ø
88	A3T2222A	300M§△	25n	10n	225n	60n	225m	10 Ø	150mØ	300 #☑		8.0p☑		N-PE†	Si	150S	u44	A
89#	BSX80	300M§△	25nØ†			70nØ†	275mØ	1.0 Ø	10mØ	30 △		6 0p		N-PE	Si	150	MM12	F
90#	ME6021	300M§△	26nØ		68nØ		360m	1.0 Ø	50mØ	40	5.0	6.0p		N	Pe	150	R97b	
91#	ME6022	300M§△	26nØ		68nØ		360m	1.0 Ø	50mØ	100	5.0	6.0p		N	Pe	150	R97b	
92#	2SA56	300M§	28n†	22n†	65n†	45n†	150m	300mØ	10mØ	40	30	5.0p		P-ME	Ge	100	TO18	
93#	2SA126	300M§	28n†	22n†	65n†	45n†	150m	500mØ	10mØ	40	50	5.0p		P-ME	Ge	100	TO18	
94#	2SA405	300M§	28n†	22n†	65n†	45n†	150m	500mØ	10mØ	40	50	5.0p		P-ME	Ge	100	TO18	
95	GME9021	300M§△	30nØ			50nØ	625mØ	1.0 Ø	10mØ	120 ☑		6.0p☑		N-PE	Si	125S	X45	
96	PET9003	300M	30n		20n	50n	250m	1.0 Ø	10mØ	80		6.0p☑		N-PE	Si	125	TO18	
97	PET9021	300M§△	30nØ			50nØ	800mØ	1.0 Ø	10mØ	120 ☑	25	6.0p☑		N	Si	125J	R110	A
98#	ST53	300M§△	30nØ†		25n	30nØ†	300m	1.0 Ø	10mØ	40 △		6.0p☑		N-PE	Si		TO18	
99#	2SA410	300M§	35n	25n	85n	65n	150m	300mØ	10mØ	40	10	1.5p		P-EM	Ge	100	TO18	
100	MM1758	300M§△	35nØ			285nØ		10 Ø	150mØ	100 △		8.0p☑		N	Si		TO46	
101	TE3605	300M§△	35nØ		20n	45nØ	500mØ	1.0 Ø	10mØ	30 △	25	6.0p☑		N-DPL	Si	150J	R97	A
102	TE3605A	300M§△	35nØ		20n	45nØ	320m	1.0 Ø	10mØ	120 ☑		25p	6.0n	N	Si	120J	TO106	A
103	TE3904	300M§△	35n	35n	200n	50n	310m	1.0 Ø	100uØ	40 #△		4.0p☑			Si	135J	TO106	
104	2N914A	300M§△	40nØ			40n	1.2 Ø	5.0 Ø	500mØ	25 #△		6.0p☑		N	Si	200J	TO18	AØ
105	2N2272	300M§△	40nØ		20n	40nØ	360m	1.0 Ø	10mØ	60 #△				N	Si	200	TO18	Ø
106#	2SC100	300M△	40nØ			70nØ	150m	1.0 Ø	10mØ	30 △		6.0p☑	100n†	N-PE	Si	200J	u23a	C
107	10B705	300M§	40nØ		35n	75nØ			10mØ	20 △	600			N-PE	Si		TO50	
108	40221	300M§△	40nØ			40nØ	360m	1.0 Ø	10mØ	30 †△		6.0p☑		N	Si	200	TO52	Ø
109	CS2481	300M§△	40nØ		20n	45nØ	650mØ	1.0 Ø	10mØ	40 #△		5 0p☑		N	Si		R97a	
110	FK914	300M§△	40nØ			40nØ	350mØ	1.0 Ø	10mØ	55 #	3.5	6.0p☑		N-PE	Si	300S	u17b	

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	3 TYPE No.	1 fab (Hz)	2 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1#	FM708	300M§△	40nØ			70nØ	350m	1.0 Ø	10mØ	30 #☑	40	6.0p☑		N	Si	200	TO46	Ø
2	FV914	300M§△	40nØ			40nØ	350mØ	1.0 Ø	10mØ	55 #	3.5	6.0p☑		N-PE	Si	300S	u5b	
3#	PEP2	300M	40n		25n	75n	300m	1.0	10m	20		6.0p		N-PE	Si	200	TO18	
4#	PEP5	300M△	40nØ		25n	75nØ	300m	1.0 Ø	10mØ	40		6.0p		N	Si	200	TO18	
5#	PEP6	300M△	40nØ		25n	75nØ	300m	1.0 Ø	10mØ	40		6.0p		N	Si	200	TO18	
6#	PEP7	300M△	40nØ		25n	75nØ	300m	1.0 Ø	10mØ	40		6.0p		N	Si	200	TO18	
7#	PEP8	300M△	40nØ		25n	75nØ	300m	1.0 Ø	10mØ	40		6.0p		N	Si	200	TO18	
8#	ST59	300M§△	40nØ		20n	40nØ	360m	1.0 Ø	10mØ	30 #△		9.0p☑		N-PE	Si		TO18	Ø
9	TE3606	300M§△	40nØ		35n	60nØ	500mØ	1.0 Ø	10mØ	30 △	25	6.0p☑		N-DPL	Si	150J	R97	A
10	TE3606A	300M§△	40nØ		35n	60nØ	320m	1.0 Ø	10mØ	120 ☑		25p	6.0n	N	Si	120J	TO106	A
11	TIS46	300M§△	40nØ		20n	40nØ	360m	1.0 Ø	10mØ	120 #☑		6.0p☑		P-E	Si	150J	TO92	
12	TE3607	300M§△	45nØ		45n	70nØ	500mØ	1.0 Ø	10mØ	30 △	25	6.0p☑		N-DPL	Si	150J	R97	A
13	D11E404	300M§△	50nØ		100nØ		800m	5.0 Ø	800m	12 △#		10p☑		N-EP	Si	200J	TO5	
14	GME9022	300M§△	50nØ			70nØ	625mØ	1.0 Ø	10mØ	30 △		6.0p☑		N-PE	Si	125S	X45	
15	PET9004	300M	50n		20n	70n	250m	1.0 Ø	10mØ	100		6.0p☑		N-PE	Si	125	TO18	
16	PET9022	300M§△	50nØ			70nØ	800mØ	1.0 Ø	10mØ	30 △	40	6.0p☑		N	Si	125J	R110	A
17	XT300	300M§△	50nØ			85nØ	75m	300mØ	10m	40 △	12	40p☑		P-D	Ge	100S	TO18	
18	D11E405	300M§△	60nØ		100nØ		800m	5.0 Ø	800m	12 △#		10p☑		N-EP	Si	200J	TO5	
19	D11E406	300M§△	70nØ		130nØ		800m	5.0 Ø	800m	12 △#		9.0p☑		N-EP	Si	200J	TO5	
20	D11E407	300M§△	70nØ		130nØ		800m	5.0 Ø	800m	12 △#		9.0p☑		N-EP	Si	200J	TO5	
21#	BSW33	300M§	200nØ	30nt	150nt	40nt	125m#	0.0	10m	180 ☑		3.0p$		N-PEt	Si	125J	MM13	F
22#	BSW34	300M§	200nØ	30nt	150nt	40nt	125m#	0.0	10m	300 ☑		3.0p$		N-PEt	Si	125J	MM13	F
23#	BSW35	300M§	200nØ	30nt	150nt	40nt	125m#	0.0	10m	200 ☑		3.0p$		N-PEt	Si	125J	MM13	F
24#	2G103	300M	4000n				150m	5.0	10m	40				P-ME	Ge	100J	TO18	
25	TE706	320M△			60n		650nØ	10 Ø	10mØ	20 △	60	6.0p☑		N-D	Si		R97a	
26#	2SC150H	320M§	.08n	.05n	.15n	.08n	750m	6.0 Ø	10mØ	20 △		7.0p		N	Si	175J	TO39	
27	2N779B	320M§△	18n	50n$	18n		150m	.50 Ø	50mØ	35 △	4.0	2.5p☑		P	Ge	100S	TO18	A
28	2N846	320M§△	18n			18n	60m	500mØ	50mØ	20 △	5.0	2.5p☑		P	Ge	100S	TO18	A
29	2N846B	320M§△	18n	50n$		18n	150m	.50 Ø	50mØ	20 △	14	2.5p☑		P	Ge	100S	TO18	A
30	101A	320M§	80nØ		120n	80n	150m	3.0 Ø	50mØ	40	30			P-ME	Ge		TO18	
31	101B	320M§	80nØ		120n	80n	150m	3.0 Ø	50mØ	40	30			P-ME	Ge		TO18	A
32	101M	320M§	80nØ		120n	80n	150m	3.0 Ø	50mØ	40	30			P-ME	Ge		TO18	A
33#	C722	350M§		35ntØ		240uØt	360m	1.0 Ø	10mØ	120		3.0p		N-PE	Si	200	TO18	A
34#	ST64	350M§△			18n		360m	1.0 Ø	10mØ	40 #△		4.0p☑		N-PE	Si		TO18	Ø
35	GET2369	350M§△	12nØ	12nØ	18n	18nØ	360m	1.0 Ø	10mØ	120 ☑	25	4.5p$☑		N-PE	Si	125J	TO18	
36	TE2369	350M§△	12nØ	12nØ	13n	18nØ	250m	2.0 Ø	100uØ	20 #△	25	4.0p☑		N-DPL	Si	150J	R97a	A
37	TIS55	350M§△	15n	10n	20n	15n	360m	500mØ	100mØ	25 #△		5.0p☑		N-PE	Si	125J	TO92	
38	TIS52	350M§△	16nØ		20n	25nØ	360m	.40 Ø	30mØ	120 #☑		5.0p☑		P-E	Si	150J	TO92	
39	MD1128	350M§△	20nØ	30nØ	35nØ		300m	1.0 Ø	10mØ	25 △		4.0p☑		P-PE	Si	200J	L2d	
40	2N834/51	350M§△	35nØ		25n	50n	300m	1.0 Ø	10mØ	25 †△	25	4.0p☑		N-E	Si	175J	TO51	
41	16J1	350M§	35nØ		18n	45nØ	200m	1.0 Ø	10mØ	30 △	25	6.0p☑		N-PE	Si	100J	R67	B
42	40220	350M§△	35nØ	25n$		75nØ	300m	1.0 Ø	10mØ	25 †△		4.0p☑		N	Si	175	TO52	Ø
43	16J2	350M§	45nØ		40n	60nØ	200m	1.0 Ø	10mØ	30 △	25	6.0p☑		N-PE	Si	100J	R67	B
44#	ST58	360M§△	40nØ		25n	75nØ	360m	1.0 Ø	10mØ	30 #△		6.0p☑		N-PE	Si		TO18	Ø
45#	2SA548H	400M§			150n		200m	1.0 Ø	10mØ	1.0 ☑		8.0p		P	Si	175J		
46#	BSV53	400M		12n	13n	10n	300m	1.0 Ø	10mØ	120 ☑	2.5	4.0p		N	Si	150	u34	
47#	BSV53P	400M		12n	13n	10n	150m	1.0 Ø	10mØ	120 ☑	2.5	4.0p		N	Si	150	u17c	E
48#	BSV54	400M		12n	13n	10n	300m	1.0 Ø	10mØ	120 ☑	2.5	4.0p		N	Si	150	u34	
49#	BSV54P	400M		12n	13n	10n	150m	1.0 Ø	10mØ	120 ☑	2.5	4.0p		N	Si	150	u17c	E
50#	ST60	400M§△			18n		360m	1.0 Ø	10mØ	30 #△		4.0p☑		N-PE	Si		TO18	Ø
51#	ST61	400M§△			18n		360m	1.0 Ø	10mØ	20 #△		4.0p☑		N-PE	Si		TO18	Ø
52#	ST62	400M§△			18n		360m	1.0 Ø	10mØ	40 #△		4.0p☑		N-PE	Si		TO18	Ø
53#	ST80	400M§△			10n		360m	1.0 Ø	10mØ	25 #△		4.0p☑		N-PE	Si		TO18	Ø
54	GME9001	400M§△	9.0ntØ			13ntØ	625mØ	1.0 Ø	10mØ	120 ☑		4.0p☑		N-PE	Si	125S	X45	
55	GME9002	400M§△	9.0ntØ			15ntØ	625mØ	1.0 Ø	10mØ	150 ☑		4.0p☑		N-PE	Si	125S	X45	
56	PET9001	400M§△	9.0nØt			13nØt	800mØ	1.0 Ø	10mØ	120 ☑	25	4.0p☑		N	Si	125J	R110	A
57	PET9002	400M§△	9.0nØt			13nØt	800mØ	1.0 Ø	10mØ	150 ☑	25	4.0p☑		N	Si	125J	R110	A
58	2N977	400M§△	10n		20n		150m	.30 Ø	40mØ	50 △	2.5	8.0p☑		P	Ge	100S	TO18	A
59#	97EPA	400M§△	12nØ			18nØ	300m	1.0 Ø	10mØ	60 ☑		4.0p☑		N-PLt	Si	125J	u46	A
60#	97EPB	400M§△	12nØ			18nØ	300m	1.0 Ø	10mØ	150 ☑		4.0p☑		N-PLt	Si	125J	u46	A
61#	BSW78	400M§△	12nØ		10n	15nØ	200m	2.0 Ø	100mØ	10 #△	25	2.5p		N-PEt	Si	125J	X64	A
62#	BSX19Ø	400M§△	12nØ		10n	18nØ	360m	1.0 Ø	10mØ	60 ☑	30			N-PE S	i	200J	TO18	AØ
63#	C1001	400M	12nØ			18nØ	360m	1.0 Ø	10mØ	40 †		4.0p		N	S	200	TO18	A
64#	FM2368	400M§△	12nØ			15nØ	300m	1.0 Ø	10mØ	20 #△	25	4.0p☑		N	Si	200	TO46	Ø
65#	P346	400M§△	12nØ		15n	18nØ	300m	2.0 Ø	10mØ	25 †△		4.5p☑		N-PE	Si	175A	TO18	Ø
66	PET9001A	400M§△	12nØ			15n	800mØ	1.0 Ø	10mØ	120 ☑	25	4.0p☑		N	Si	125J	R110	A
67	PET9002A	400M§△	12nØ			15n	800mØ	1.0 Ø	10mØ	150 ☑	25	4.0p☑		N	Si	125J	R110	A
68#	TIS47	400M§△	12nØ		13n	18nØ	360m	1.0 Ø	10mØ	20 #△	25	4.0p☑		N-PE	Si	150J	TO92	
69	TP4274	400M§△	12nØ	13n$		12nØ	500mØ	1.0 Ø	100mØ	18 △#		4.0p$☑		N-PL	Si	125J	X55a	A
70	TP4275	400M§△	12nØ	13n$		12nØ	500mØ	1.0 Ø	100mØ	18 △#		4.0p$☑		N-PL	Si	125J	X55a	A
71	A3T3011	400M§△	15nØ		14n	20nØ	225m	350mØ	10mØ	120 #☑		4.0p☑		N-PEt	Si	150S	u44	A
72#	BSS21	400M§△	15nØ		18n	23nØ	250m	.40 Ø	30mØ	25 △	20	4.0p☑		N-PEt	Si	150S	X55c	A
73#	TIS51	400M§△	15nØ		18n	23nØ	360m	400mØ	30mØ	25 #△		4.0p☑		N-PE	Si	150J	TO92	
74	2N743/46	400M§	16nØ		14n	10n	300m	1.0 Ø	100mØ	10 †△	35	5.0p☑		N-E	Si	175J	TO51	
75	2N743/51	400M§	16nØ		14n	10n	300m	1.0 Ø	100mØ	10 †△	35	5.0p☑		N-E	Si	175J	TO51	
76	2N744/46	400M§	16nØ		18n	10n	400m	1.0 Ø	100mØ	20 †△	35	5.0p☑		N-E	Si	175J	TO46	
77	2N744/51	400M§	16nØ		18n	10n	300m	1.0 Ø	100mØ	20 †△	35	5.0p☑		N-E	Si	175J	TO51	
78#	B2	400M§	20nØ		20n	40nØ	150m	500mØ	1.0 Ø	40 △		6.0p☑		N	Si	125J		
79#	B3	400M§	20nØ		20n	40nØ	150m	500mØ	1.0 Ø	60 △		6.0p☑		N	Si	125J		
80#	B4	400M§	20nØ		20n	40nØ	150m	500mØ	1.0 Ø	90 △		6.0p☑		N	Si	125J		
81#	BSW11	400M§△	25nØ			50nØ	50m*	1.0 Ø	10mØ	50 △	35	3.0p☑		N-PEt	Si	125J	u47a	D
82	CS2218	400M§	26nØ		68nØ		1.5 Ø	10 Ø	150mØ	40 #△		4.0p		N	Si		R97	
83	CS2219	400M§	26nØ		68nØ		1.5 Ø	10 Ø	150mØ	100 #△		4.0p		N	Si		R97	
84	CS2221	400M§	26nØ		68nØ		1.0 Ø	10 Ø	150mØ	40 #△		4.0p		N	Si		R97a	
85	CS2222	400M§	26nØ		68nØ		1.0 Ø	10 Ø	150mØ	100 #△		4.0p		N	Si		R97a	
86	2N4451	400M§△	30n	35n	65n	30n	300m	.50 Ø	30mØ	40 #△		6p$☑		P	Si	200S	TO46	A
87#	BSS22	400M§△	30nØ			35nØ	250m	.30 Ø	10mØ	25 △	15	6.0p☑		P-PEt	Si	150S	X55c	A
88#	BSV55	400M	30nØ			50nØ	300m	500mØ	30mØ	150 ☑	5.0	6.0p		P	Si	150	u34	
89#	BSV55P	400M	30nØ			50nØ	150m	500mØ	30mØ	150 ☑	5.0	6.0p		P	Si	150	u17c	E
90	40217	400M§	60n$				300m	1.0 Ø	10mØ	20 †△		5.0p		N	Si	175	TO52	Ø
91	A3T2894	400M§△	60nØ			90nØ	225m	500mØ	30mØ	150 #☑		6.0p☑		P-PEt	Si	150S	u44	A
92#	BSV55A	400M	60nØ			90nØ	300m	500mØ	30mØ	120 ☑	5.0	6.0p		P	Si	150	u34	
93#	BSV55AP	400M	60nØ			90nØ	150m	500mØ	30mØ	120 ☑	5.0	6.0p		P	Si	150	u17c	E
94#	BSW81	400M§△	60nØ			90nØ	200m	300mØ	10mØ	30 #△		8.0p☑		P-PEt	Si	125J	X64	A
95#	FM2894	400M§△	60nØ			90nØ	300m	500mØ	30mØ	40 #△	5.0	6.0p☑		P	Si	200	TO46	Ø
96	MM2894	400M§△	60nØ			60nØ	1.2 Ø	.30 Ø	1.0mØ	25 #△	5.0	6.0p☑		P-E	Si	200J	R038w	
97	MPS2894	400M§△	60nØ			90nØ	1.0 Ø	500mØ	30mØ	70 #	15	6.0p☑		P-E	Si	125J	X20b	
98#	V405	400M§△	80nØ			110nØ	300m	500mØ	30mØ	20 †△		6.5p☑		N-PE	Si	175J	TO18	Ø
99#	2SC63	400M§	120n		100n	100n	300m	1.0 Ø	10mØ	40	60		4.5n	N-ME	Si	175	TO18	
100#	C720	420M§		70nØ		100uØ	360m	1.0 Ø	10mØ	60		4.5p		N-PE	Si	200	TO18	A
101	2N559	440Mt	100 tØ			37ntØ	150m	500mØ	10m	45	20	6.0p☑		P-ME	Ge	150	TO28	
102#	V723	450M§		22utØ		65ntØ	360m	1.0 Ø	10mØ	130		3.0p		P-PE	Si	200	TO18	A
103#	2SA372	450M§	6.0nØ		30n	15n	100m	1.0 Ø	10mØ	150 ☑	20	3.5p☑		P-EM	Ge	85J	TO18	
104	u7003	450M§△	15nØ		15nØ		200m	.50 Ø	10mØ	70		3.0p☑		N-D	Si	175J	TO51	
105#	2SA446	450M§	35nØ		140n	170n	200m	1.0 Ø	100mØ	70	6.0	3.5p☑		P-EM	Ge	85S	TO5	
106	2N960/46	460M§	50nØ			85nØ	150m	300mØ	10m	40	18	2.2p		P-EM	Ge	100J	TO46	
107	2N962/46	460M§	50nØ			100nØ	150m	300mØ	10m	40	20	2.2p		P-EM	Ge	100J	TO46	
108#	V721	480M§		80nØ		110uØ	300m	1.0 Ø	10mØ	50		3.0p		P-PE	Si	200	TO18	A
109	2N708/46	480M△	40nØ		25n	75nØ	360m	40	10m	30 △	40	6.0p☑	50n	N-PL	Si	200J	TO46	
110	2N708/51	480M△	40nØ			75nØ	360m	1.0 Ø	10m	30 △	40		50n	N-PL	Si	200J	TO51	A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SWITCHING TRANSISTORS

IN ORDER OF (1) fab, (2) MAX RISE TIME & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] fab (Hz)	[2] MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS Vcb (V)	BIAS Ie (A)	hFE	MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	MAT	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEAD CODE
1	TC0914	480MΔ	40nØ	20n$		40nØ	360m	1.0 Ø	10mØ	30 #Δ	3.5	4.5p		N-PE	Si	200J		
2#	ST82	500M$Δ			13n	18nØ	360m	1.0 Ø	10mØ	50 #Δ		4.0pØ		N-PE	Si		TO18	Ø
3	ST6110	500M			10n		300m	500mØ	10mØ	20	117			N-PE	Si	200J	TO18	
4#	BSW79	500M$Δ	12nØ		13n	18nØ	200m	2.0 Ø	100mØ	20 #Δ	25	2.5p		N-PE†	Si	125J	X64	A
5#	BSX20%	500M†Δ	12nØ		13n	18nØ	360m	1.0 Ø	10mØ	40 Δ	30	4.0p$		N-PE	Si	200J	TO18	Ø
6#	BSX20Ø	500M$Δ	12nØ		13n	21nØ	360m	1.0 Ø	10mØ	120 Ø	30			N-PE S	i	200J	TO18	AØ
7	FK2369A	500M$Δ	12nØ			18nØ	350mØ	1.0 Ø	10mØ	66 #	5.0	4.0pØ		N-PE	Si	200S	u17b	
8#	FT1315	500M$Δ	12nØ			18nØ	360m	500mØ	50mØ	40 #Δ	3.0	4.0pØ		N-PE	Si	200S	TO18	AØ
9	FV2369A	500M$Δ	12nØ			18nØ	350mØ	1.0 Ø	10mØ	66 #	5.0	4.0pØ		N-PE	Si	200S	u5b	
10	MD1T2369	500M$	12nØ		13n	18nØ	360m	1.0 Ø	10mØ	40 #Δ	25	4.0pØ		N	Si	150A	TO122	P
11#	TIS48	500M$Δ	12nØ		18n	23nØ	360m	1.0 Ø	10mØ	40 #Δ	25	4.0pØ		N-PE	Si	150J	TO92	B
12#	TIS49	500M$Δ	12nØ		18n	23nØ	360m	1.0 Ø	10mØ	120 #Ø	5.0	4.0pØ		N-PE	Si	150J	TO92	B
13#	FM2369	500M$Δ	15nØ			18nØ	300m	1.0 Ø	10mØ	40 #Δ	25	4.0pØ		N	Si	200	TO46	Ø
14	2N5272	500M$Δ	18n	5.0n	13n	15n	360m	1.0 Ø	100mØ	30 Δ#		4p$Ø		N	Si	200S	TO18	AØ
15	FK2894	500M$	60nØ			75nØ	200m$	300mØ	10mØ	55 #	7.0	3.3p		PDPE	Si	200J	u17b	
16	FV2894	500M$	60nØ			75nØ	200m$	300mØ	10mØ	55 #	7.0	3.3p		PDPE	Si	200J	u5b	
17#	2SC423	500M$	70n		120n	60n	500m	5.0 Ø	20mØ	80		5.0p		N-PE	Si	175J	TO39	
18#	2SC425	500M$	70n		120n	60n	500m	5.0 Ø	20mØ	80		5.0p		N-PE	Si	175J	TO39	
19#	2SC934	500M$	70n		120n	60n	200m	5.0 Ø	20mØ	80				N-PE	Si	125J	TO104	
20	FT4354	500M$Ø	100nØ			400nØ	4.0 Ø	10 Ø	1.0mØ	120 #		30p$Ø		P-DPEØ	Si	125J	TO105	A
21	FT4355	500M$Ø	100nØ			400nØ	4.0 Ø	10 Ø	1.0mØ	200 #		30p$Ø		P-DPEØ	Si	125J	TO105	A
22	FT4356	500M$Ø	100nØ			400nØ	4.0 Ø	10 Ø	1.0mØ	180 #		30p$Ø		P-DPEØ	Si	125J	TO105	A
23#	2SA450H	530M$	13n†	12n†	14n†	24n†	300mØ	1.0 Ø	50mØ	30 Δ		4.0pØ		P-EM	Ge	100J	TO18	AØ
24#	2SA451H	530M$	13n†	12n†	14n†	24n†	300mØ	1.0 Ø	50mØ	60 Δ		4.0pØ		P-EM	Ge	100J	TO18	AØ
25#	2SA452H	530M$	13n†	12n†	14n†	24n†	300mØ	1.0 Ø	50mØ	120 Δ		4.0pØ		P-EM	Ge	100J	TO18	AØ
26#	FM3014	560MΔ	16nØ		18n	25nØ	360m	400mØ	30mØ	30 #Δ	6.0	5.0pØ		N-PE	Si	200J	TO46	Ø
27#	FM709	600M$Δ	12nØ			12nØ	300m	400mØ	10mØ	30 Δ	12	3.0pØ		N	Si	200	TO46	Ø
28#	2SC679H	600M$Δ	13nØ		10n		300m	1.0 Ø	10mØ	40 Δ		3.5pØ		N-PE	Si	175	TO18	
29	2N709/51	600M$Δ	15nØ			15nØ	300m	.50 Ø	10mØ	20 †Δ	100	3.0pØ		N-E	Si	200J	TO51	
30	10E1051	600M$	15nØ		6.0n	15nØ			10mØ	120 Ø	3.5			N-PE	Si		u40	
31	2N2475/51	600M$Δ	20nØ			15nØ	300m	.50 Ø	50mØ	20 †Δ	20	3.0pØ		N-E Si		200J	TO51	
32#	78EP	600M$Δ	20nØ			15nØ	300m	400mØ	20mØ	150 Ø		3.0pØ		N-PE†	Si	125J	u46	A
33	SE6020A	600M$Ø	150nØ			1.0uØ	4.0 Ø	10 Ø	100uØ	60		15p$Ø		N-DPE	Si	125J	TO105	A
34	SE6021A	600M$Ø	150nØ			1.0uØ	4.0 Ø	10 Ø	100uØ	70		15p$Ø		N-DPE	Si	125J	TO105	A
35	2N2368/51	640MΔ	12nØ	10n$		15nØ	300m	1.0 Ø	10mØ	40		4.0pØ		N-PE	Si	200J	TO51	
36	CS2368	640MΔ	12nØ	10n$	15nØ		360m	1.0	10mØ	40		4.0p		N-PE	Si	200J	TO18	AØ
37#	BSX94	650M$Δ	15nØ			15nØ	300m	300mØ	10mØ	50 #Δ		3.0pØ		P-PE	Si	200J	TO18	AØ
38#	BSW80	675M$	12nØ		13n	18nØ	200m	350mØ	10mØ	63 #		2.3p		N-PE†	Si	125J	X64	A
39	RT2459	700M$Δ	20n	20n	100n	40n	360m	400mØ	10mØ	300 Ø	10	4.5pØ		P-PEØ	Si	200J	TO18	
40	PMT023	750M	20n	110n$			100m	1.0 Ø	10m	20 Δ		6.0pØ		N-ME	Si	150S	u7	
41	PMT123	750M	20n$	110n			250mØ	1.0 Ø	10m	20 #Δ		6.0pØ		N-ME	Si	150S	u6	
42	PMT216	750M	20n				100mØ	1.0 Ø	10m	20 #Δ		5.0p		N-ME	Si	150J	TO51	
43	PMT223	750M	20n				250mØ	1.0 Ø	10m	20 #Δ		6.0pØ		N-ME	Si	150J	TO51	
44#	2SC613	750M$	25nØ			25nØ	360m	1.0 Ø	10mØ	80 †		1.5p		N-PE	Si	200J	TO18	
45	2N2475/46	800M$	7.3nØ			9.0nØ	400m	400mØ	20m	50	20	2.4p		N-PE	Si	200J	TO46	
46	ME8201	800M$	8.0n			8.0n	250m	1.0 Ø	15mØ	90	20	2.5p		P-PE	Si	150	R97b	
47	2N2369/51	800MΔ	12nØ	13n$		18nØ	300m	1.0 Ø	10mØ	80		4.0pØ		N-PE	Si	200J	TO51	
48	TC2369A	800MΔ	12nØ		13n	18nØ	360m	1.0 Ø	10mØ	80 Δ	20	4.0pØ		N-PE	Si	200J		
49	2N709A/46	800M$	15nØ			15nØ	400m	500mØ	10mØ	60	100	3.0pØ		N-PE	Si	200J	TO46	
50	2N709A/51	800M$	15nØ			15nØ	300m	500mØ	10mØ	60	100	3.0pØ		N-PE	Si	200J	TO51	
51#	BSV50E	800M	20nØ			35nØ	60mØ	1.0	10mØ	20 Δ		3.6p		P-PE	Si	125J		D
52#	BSV50F	800M	20nØ			35nØ	60mØ	1.0	10mØ	20 Δ		3.6p		P-PE	Si	125J		E
53#	BSV50G	800M	20nØ			35nØ	60mØ	1.0	10mØ	20 Δ		3.6p		P-PE	Si	125J		F
54	RT2462	800M$Δ	20nØ	9.0n	9.0n	20nØ	300m	1.0 Ø	30mØ	15 #Δ	100m	3.0pØ		P-PE	Si	200J		
55	2N4872	900M$Δ	15n	10n	20n	10n	700m	.30 Ø	10mØ	50 #Δ	130	3.0pØ		P	Si	200J	TO18	AØ
56	ST6120	1000M$			10n		300m	500mØ	10mØ	20 †	117			N-PE	Si	200J	TO18	
57	MM2550	1000M$Δ	2.5nØ			2.5nØ	150m	5.0 Ø	10mØ	20 Δ		3.0pØ	50p	P	Ge	100J	TO18	A
58	MM2552	1000M$Δ	3.5nØ			2.5nØ	300m	5.0 Ø	25mØ	30 Δ		3.0pØ	50p	P	Ge	100J	TO5	A
59	MM2554	1000M$Δ	3.5nØ			2.5nØ	300m	5.0 Ø	40mØ	20 Δ		4.0pØ	50p	P	Ge	100J	TO5	A
60	2N2784/51	1000M$Δ	9.0nØ		5.0n	4.0n	300m	1.0 Ø	30mØ	20 †Δ	85	3.0pØ		N-E	Si	200J	TO51	A
61	2N2784/52	1000M$Δ	9.0nØ		5.0n	9.0nØ	300m	500mØ	10mØ	40 Δ	87	3.0pØ		N-PE	Si	200J	TO52	
62	2N955A	1000M$	10n	4.5n†	5.0n†	8.0n†	150m	500mØ	30m	50				N-ME	Ge	100J	TO18	
63	2N955	1000M$	11n†	20n†	45n†	50n†	150m	500m	30m	30 Δ	16		4.0n	N-ME	Ge	100	TO18	
64	2N3633/52	1300M$Δ	9.0nØ		5.0n	9.0nØ	300m	500mØ	10mØ	150 Ø	70	2.5pØ		N-PE	Si	200J	TO52	
65	ME8101	1500M$	4.0n			4.0n	250m	1.0 Ø	15mØ	90	20	1.3p		N-PE	Si	150	R97b	
66	TIX895	2500M$	5.0n†Ø			6.0n†Ø	75m	1.0 Ø	10mØ	20 Δ	25	1.5pØ		P-DEM	Ge	100J	u25	
67	2N2446	3000M$Δ	30uØ		35uØ		90	2.0 Ø	5.0mØ	15 Δ				P	Ge	125	TO3	
68	2N2379	4000M†	30uØ			60uØ	150 Ø	2.0 Ø	5.0 Ø	37 Ø	60m			P	Si	150J	TO36	Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

13. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	USAF526ES090P		9 P	Si	RO3	3	P-450mW;ISR-.61 max;RB1B2-6.6Kohms max;Ip-5.88uA max.
2	2N1468	1	N-FA	Si	TO5		Pc-.25W max; Ip-2.0A max; tr-10ns
3	CK273	1	N	Si	TO5		Pc-.25W max; BVCBO-25V.
4	CK277	1	N	Si	TO5		Pc-.25W max; BVCBO-90V.
5	NS1110†	1	N	Si	TO18	AØ	ICBO-1.0uA max;Ih-300mA;VH-9.0V;IA-2.0mA;Ip-2.0A;BVCES-110V min.
6	NS1111†	1	N	Si	TO18	AØ	ICBO-1.0uA max;Ih-300mA;VH-9.0V;IA-2.0mA;Ip-1.5A;BVCES-60V min.
7	NS1112	1	N	Si	TO18	AØ	Pt-300 min;BVCBO-150V;Ic-10A peak;tr-1ns max;td-5ns max.
8	NS1116†	1	N	Si	TO18	AØ	ICBO-1.0uA max;Ih-300mA;VH-9.0V;IA-2.0mA;Ip-2.5A;BVCES-190V min.
9	NS2310	1	N	Si	TO18	AØ	Pt-300 min;BVCBO-120V min;Ic-10A peak;tr-2ns max;td-5ns max.
10	NS2311	1	N	Si	TO18	AØ	Pt-300 min;BVCBO-120V;Ic-10A peak;tr-2ns max;td-5ns max.
11	PADT51	1	P-AD	Ge	TO7		Pc-85mW;BVEBO-2.0V;tr-1.0ns.
12#	RT1110	1	N-PL	Si	TO18	AØ	BVCES-190V max;ICBO-1.0uA max;tr-1.0ns max;tf-2.5ns max.
13#	RT1111	1	N-PL	Si	TO18	AØ	BVCES-120V max;ICBO-1.0uA max;tr-1.0ns max;tf-2.5ns max.
14#	RT1116	1	N-PL	Si	TO18	AØ	BVCES-280V max;ICBO-1.0uA max;tr-1.0ns max;tf-2.5ns max.
15	SYL3013	1	N-EM	Si	TO18		Pc-.30W; BVCBO-75V; BVEBO-5.0V; Ic-.20A; hFE-20 min at Ic-10 ma.
16#	ASY60	2	P-A△	Ge	R47		Pc-.20W max; BVCBO-20V; fab-11.0Mc; hFE-50; ICBO-5uA max.
17#	ASY64	2	P-A△	Ge	R47		Pc-.20W max; BVCBO-30V; fab-3.5Mc; hFE-35; ICBO-3uA max.
18#	ASY66	2	P-A△	Ge	R47		Pc-.20W max; BVCBO-30V; fab-6.0Mc; hFE-35; ICBO-5uA max.
19	C106*	2	P	Si	TO5	AØ	VO-2.0mV max;hFE-30 min at VCE-.50V;RCE(SAT)-4.0 ohms max.
20	C201	2	P-△	Si	TO5		Pc-.25W max;BVCBO-40V;IC-50mA max;fab-.40Mc.
21	C202	2	P-△	Si	TO5		Pc-.25W max;BVCBO-25V;IC-50mA max;fab-.80Mc.
22	C301	2	P-△	Si	TO5		Pc-.25W max;BVCBO-70V;IC-50mA max;fab-.40Mc.
23	C301A	2	P-△	Si	TO5		Pc-.25 max; BVCBO-70V; IC-50mA MAX: FAB-.04Mc.
24	C302	2	P-△	Si	TO5		Pc-.25W max;BVCBO-12V;IC-50mA max;fab-.80Mc.
25	C401	2	P-△	Si	TO5		Pc-.25W max;BVCBO-40V;IC-50mA max;fab-.40Mc.
26	C402	2	P-△	Si	TO5		Pc-.25W max;BVCBO-15V;IC-50mA max;fab-.80Mc.
27	C502	2	P-△	Si	TO5		Pc-.25W; BVCBO-30V; IC-50mA; BVCEO-10V.
28#	SFT185	2	P-A	Ge	TO5		Pc-.15W max;BVCBO-30V;IC-100mA max;ft-2.0Mc min.
29	TK20C	2	P-A	Ge	R47		Pc-.20W Max; BVCBO-30V; fab-6.0
30#	TK21C	2	P-A△	Ge	R47		Pc-.20W max; BVCBO-30V; fab-2.0Mc; hFE-21; ICBO-3uA max.
31#	TK24C	2	P-A	Ge	R47		Pc-.20W max; BVCBO-30V; fab-3.5
32#	TK25C	2	P-A	Ge	R47		Pc-.20W max; BVCBO-20V; fab-11.0
33	2N2457	3	PL	Si	TO5		Vpo-5.0V max; ho-125u mhos min; hi-50M ohms Typ.
34	2N2458	3	PL	Si	TO51		Vpo-5.0V max; ho-125u mhos min; hi-100M ohms Typ.
35	3N98	3	N	Si	RO38c		Pc-150mW at 85C;Vds-32V; Id-7.7mA max. at 12V-VDS
36	3N99	3	N	Si	RO38c		Pc-150mW at 85C;Vds-32V; Id-10.5mA max. at 12V-VDS
37	4Z9-4Z12	3		Si	TO5		N-Channel
38	11005	3	P	Si	L18		Pc-1.0W;BVDSS-30V min;IDSS-35nA max;gFS-650 umho. Matched pair
39	31004	3	P	Si			4 Leaded TO5 or TO46; BVDSS-25V; IDSS-100mA max; gFS-850u mhos.
40	51009	3	P	Si	RO38k		BVDSS-20V min;IDSS-10nA max;gFS-70 umho;Vgs-20V max.
41	C610	3	N-△	Si	TO5		Pc-.25W max;Vpo-20V max;ho-100u mhos min;IGDO-.10ua;BVGD-40V max.
42	C611	3	N-△	Si	TO5		Pc-.25W max;Vpo-20V max;ho-200u mhos min;IGDO-.10ua;BVGD-40V max.
43	C612	3	N-△	Si	TO5		Pc-.25W max;Vpo-20V max;ho-400u mhos min;IGDO-.10ua;BVGD-40V max.
44	C613	3	N-△	Si	TO5		Pc-.25W max;Vpo-20V max;ho-800u mhos min;IGDO-.10ua;BVGD-40V max.
45	C614	3	N-△	Si	TO5		Pc-.25W max;Vpo-10V max;ho-100u mhos min;IGDO-.10ua;BVGD-40V max.
46	C615	3	N-△	Si	TO5		Pc-.25W max;Vpo-10V max;ho-500u mhos min;IGDO-.10ua;BVGD-40V max.
47	C620	3	N	Si	TO5		Pc-.25W max;Vpo-10V max;ho-50u mhos min;IGDO-.10ua;NF-5.0db max.
48	C621	3	N	Si	TO5		Pc-.25W max;Vpo-10V max;ho-50u mhos min;IGDO-.10ua;NF-5.0db max.
49	C622	3	N	Si	TO5		Pc-.25W max;Vpo-10V max;ho-50u mhos min;IGDO-.10ua;NF-2.0db max.
50	C623	3	N	Si	TO5		Pc-.25W max;Vpo-10V max;ho-50u mhos min;IGDO-.10ua;NF-2.0db max.
51	C624	3	N	Si	TO5		Pc-.25W max;Vpo-10V max;ho-50u mhos min;IGDO-.10ua;NF-.50db max.
52	C625	3	N	Si	TO5		Pc-.25W max;Vpo-10V max;ho-50u mhos min;IGDO-.10ua;NF-.50db max.
53	C631	3	N-△	Si	TO5		Pc-.25W max;Vpo-30V max;ho-125u mhos min;BVGD-150V max.
54	C632	3	N-△	Si	TO5		Pc-.25W max;Vpo-40V max;ho-100u mhos min;BVGD-250V max.
55	C633	3	N-△	Si	TO5		Pc-.25W max;Vpo-40V max;ho-100u mhos min;BVGD-350V max.
56	C640	3	N	Si	OV10		Pc-.675W max;Vpo-10V max;ho-1000u mhos min;IGDO-.10ua
57	C641	3	N	Si	OV10		Pc-.675W max;Vpo-10V max;ho-2000u mhos min;IGDO-.10ua
58	C642	3	N	Si	OV10		Pc-.675W max;Vpo-10V max;ho-3000u mhos min;IGDO-.10ua
59	C643	3	N	Si	OV10		Pc-.675W max;Vpo-10V max;ho-4500u mhos min;IGDO-.10ua
60	C644	3	N	Si	OV10		Pc-.675W max;Vpo-10V max;ho-6000u mhos min;IGDO-.10ua
61	C650	3	N-☑△	Si	TO5		Pc-.25W max; ICBO-.10ua
62	C651	3	N-☑△	Si	TO5		Pc-.25W max; ICBO-.10ua
63	C652	3	N-☑△	Si	TO5		Pc-.25W max; ICBO-.10ua
64	C653	3	N-☑△	Si	TO5		Pc-.25W max; ICBO-.10ua
65	DA102	3	N	Si	L21		Diff.Ampl.;Pc-.75W both sides;BVDGO-50V min;IGSS-.10nA max.
66	DA402	3	N	Si	L21		Diff.Ampl.;Pc-.75W both sides;BVDGO-50V min;IGSS-.25nA max.
67	DPT200	3	N	Si	RO38h		Insulated Gate;VDSS-25V;gm-1500uV min;Enhancement Type
68	DPT201	3	N	Si	RO38h		Insulated Gate;VDSS-25V;gm-1500uV min;Depletion Type
69	FE250	3	N-PL	Si	TO18		BVDGO-200V min;gm-400u mhos; Vpo-10V max; IDGO-2.0nA max.
70	FE252	3	N-PL	Si	TO18		BVDGO-200V min;gm-300u mhos; Vpo-5.0V max; IDGO-2.0nA max.
71	FE254	3	N-PL	Si	TO18		BVDGO-200V min;gm-200u mhos; Vpo-2.5V max; IDGO-2.0nA max.
72	FE350	3	N-PL	Si	TO18		BVDGO-200V min;gm-1000u mhos; Vpo-10V max; IDGO-5.0nA max.
73	FE352	3	N-PL	Si	TO18		BVDGO-200V min;gm-700u mhos; Vpo-5.0V max; IDGO-5.0nA max.
74	FE354	3	N-PL	Si	TO18		BVDGO-200V min;gm-500u mhos; Vpo-2.5V max; IDGO-5.0nA max.
75	FE1600	3	N	Si	R82		BVDGO-30V min; IGSS-2.0nA max; Ron-50 ohms max; Vp-15V max.
76	FG34	3	N-PL	Si	TO5		BVDGO-50V min;gm-1.0m mhos; Vpo-20V max; IDGO-.10uA max.
77	FG35	3	N-PL	Si	TO5		BVDGO-100V min;gm-1.0m mhos; Vpo-20V max; IDGO-.10uA max.
78	FG36	3	N-PL	Si	TO5		BVDGO-150V min;gm-1.0m mhos; Vpo-20V max; IDGO-.10uA max.
79	FG37	3	N-PL	Si	TO5		BVDGO-200V min;gm-1.0m mhos; Vpo-20V max; IDGO-.10uA max.
80	FSP400	3	PL	Si			Vpo-3.0V; VDGO-30V; IDGO-.10 na max.
81	MM2102†	3	N-MOS	Si	RO38y		Pd-300mW;VDS-25V;Id-30mA;VGS(TH)4Vmax;Yfs-1000umhos min.
82	MM2103†	3	P-MOS	Si	RO38y		Pd-300mW;VDS-25V;Id-30mA;VGS(TH)5Vmax;Yfs-1000umhos min.
83#	OC800	3		Si			Pc-.075W max; BVCBO-50V; gm-.05 umhos min; Igs-.10 ua
84	P1003	3	P-PL	Si	RO38L		BVDGO-50V min; gm-1000 umhos min; Vp-3.0V max; Pd-.30W
85	P1004	3	P-PL	Si	RO38L		BVDGO-50V min; gm-2500 umhos min; Vp-5.0V max; Pd-.30W
86	P1005	3	P-PL	Si	RO38L		BVDGO-50V min; gm-3500 umhos min; Vp-8.0V max; Pd-.30W
87	PT320	3	MOS△ S	i	RO38y		Pd-120mW;BVDSS-25V;BVGSS-50V;Yfs-2500umhos;VG8th)-3.0V max.
88	SA2345	3	N-PL	Si	RO38f		BVDGO-50V min;IGSS-.50nA max;RP-.80mohms min;IG-.20nA max.
89#	ST3	3		Ge			Pc-200mW max; fab-200Mc; BVCBO-100V; TJ-85 deg. C max.
90	SU2000	3	N-PL	Si	RO38d		BVDGO-50V min;gm-7500umhos max;Vp-4.0V max;CDG-.35pt max.
91	SU2020	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.95-1.0;gm1/gm2-.95-1.0
92	SU2021	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.90-1.0;gm1/gm2-.90-1.0
93	SU2022	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.90-1.0;gm1/gm2-.90-1.0
94	SU2023	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.80-1.0;gm1/gm2-.80-1.0
95	SU2024	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.95-1.0;gm1/gm2-.95-1.0
96	SU2025	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.90-1.0;gm1/gm2-.90-1.0
97	SU2026	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.90-1.0;gm1/gm2-.90-1.0
98	SU2027	3	N-PL	Si	L21		Matched Pair;BVDGO-50Vmin;IDSS1/IDSS2-.80-1.0;gm1/gm2-.80-1.0
99	SU2037	3	N-PL	Si	TO59		BVDGO-100V min;gm-20,000umhos min;Vp-15V max;Pd-10W at Tc 25 deg.
100#	THP169	3		Ge			Max. Pc-80mW; BVCBO-80V;Derate Free Air 3.3 deg.C/mW;85J
101#	THP170	3		Ge			Max. Pc-50mW; BVCBO-50V;Derate Free Air 3.3 deg.C/mW;85J
102#	THP171	3		Ge			Max. Pc-80mW; BVCBO-80V;Derate Free Air 3.3 deg.C/mW;85J
103#	THP172	3		Ge			Max. Pc-50mW; BVCBO-50V;Derate Free Air 3.3 deg.C/mW;85J
104	TIS11	3	P-MOS	Si	R38e		BVGSS-30V;IDSS-.01mA max;Yfs-800umhos min;Ciss-8.0pf max.
105	TIX690	3		Si	TO12		Max. Coll diss. 500mW; Max temp. 175 deg. C. J.
106	TIX881	3	P-A	Ge	TO11		Pd-150mW; BVDGO-40V min; Yis-.40u mho max; Yfs-400u mho min.
107	TIX882	3	P-A	Ge	TO11		Pd-150mW; BVDGO-40V min; Yis-.40u mho max; Yfs-600u mho min.
108	TIX883	3	P-A	Ge	TO11		Pd-150mW; BVDGO-40V min; Yis-.40u mho max; Yfs-800u mho min.
109	TIXS11	3	PMOS	Si	RO38y		Pd-300mW;BVDSS-30V;IDSS-10nA;VGS(th)-3.0V min;Yfs-800umhos min.
110	u1327	3	N-PL	Si	TO18		BVDGO-50V min;gm1-1100umhos;gm2-800umhos;Vps-4.0V max;Pd-300mW.

13. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	u3002	3	N-PL	Si	TO18		BVDGO-30V min;gm-200umhos min;Vp-510V max;Pd-15mW.
2	X1004	3		Si			4 leaded TO5 or TO46; BVDSS-50V; IDSS-100nA max; gfs-1000u mhos
3#	ZFT16	3	N-PL	Si	L40		Pt-.35W;Vpo-5.0V;BVDS-50V;IDO-6.0mA;BVDG-65V.
4#	ZFT18	3	N-PL	Si	L40		Pt-.35W;Vpo-5.0V;BVDS-100V;IDO-6.0mA;BVDG-100V.
5	2N1019	4	PNN	Ge-Si			Pc-10W max;BVCBO-30V; Ic-3.0A max;hFE-15000 Typ/VCE-5.0V;Ic-1.0A.
6	2N1020	4	NPP	Ge-Si			Pc-10W max;BVCBO-30V; Ic-3.0A max;hFE-15000 Typ/VCE-5.0V;Ic-1.0A.
7	2N67	5		Δ		Ge	Max. Coll. Dist. 100mW; Ic 50mA;BVEB 50V; Max. Temp 85 deg.CS
8#	2SB43	5	P-A	Ge	TO1		fab-1.0Mc; BVCBO-25V; IC-.05A max; hFE-70 at IC-.05A
9#	2SD43	5	A	Ge	TO1		fab-1.0Mc; BVCBO-25V; IC-.05A max; hFE-70 at IC-.05A
10#	AC127/AC152	5		Ge	TO1		BVCBO-32V; IC-500mA; hFE1/2-1.25
11#	AC154/AC157	5	A	Ge	TO1		Matched pair of AC154 and AC157
12#	AC166/AC168	5	A	Ge	TO1		Matched pair of AC166 and AC168
13	FP4339/2N4339	5	P-N	Si	ZA25		Vp match-30%;IDSS match-5%;BVGSS-40V max;Pc-.30W max.
14	FP4340/2N4340	5	P-N	Si	ZA25		Vp match-30%;IDSS match-5%;BVGSS-50V max;Pc-.30W max.
15	FT3838†	5	PE	Si	TO89		BVCEO-40V;Ic-600mA max;fT-200Mc;hFE-100 min. at 150mA, 10V.
16	GA53080	5	Δ	Ge			Max. Coll. Dist. 250mW; FaB 10mC;BVCB 100V; Ic 50mA;BVEB 100V
17#	2AD140	6	P-E	Ge	TO3		Matched Pair of AD140; hFE1/hFE2-1.25 to 1.0
18#	2AD161	6		Ge	TO9		Pt-4W;VCBO-32V;IC-3A pulsed;hFE-80 min;ft-3MHz.
19#	2ASZ15	6	P	Si			Pt 30W;BVCBO 100V;BVCEO 60V;hFE1/2 1.25 at IC 6A,VCE 1.0V.
20#	2AT128	6	P-A	Ge	TO1		Matched Pair of AT128; hFE/hFE2-.83 max.
21#	2AT329	6	N-PL	Si	MM12a		Matched Pair of AT329; hFE/hFE2-.75 max.
22#	2AT331	6	P-PL	Si			Matched Pair of AT331; hFE/hFE2-.75 max.
23#	2BC138	6	N-DPE	Si	TO39		Matched Pair of BC138;hFE 1/2 1.0min-1.25max at IC of 1.0A.
24#	2BC143	6	P-PE	Si	TO39		Matched Pair of BC143;hFE 1/2 .80min-1.25max at IC of 500mA.
25#	2BC144	6	N-DPE	Si	TO5		Matched Pair of BC144;hFE1/2-1.25 max;Pt-.70W each.
26#	2BC221	6	P-DPE	Si	TO105		Matched Pair of BC221;hFE 1/2 1.0min-1.25max at IC of 200mA.
27#	2BC222	6	N-DPE	Si	TO105		Matched Pair of BC222;hFE 1/2 1.0min-1.25max at IC of 200mA.
28#	2BD117	6	N-DPE	Si	TO3		Matched Pair of BD117;hFE1/2-.80 min;Pc-30W each at Tc-50deg.C.
29	2N214MP	6	N-A	Ge			Max. Coll. Diss. 180mW;FaB.80mC;Max.Temp.85J;Matched pair of2N214
30	2N3162	6	N	Si	L8		VCEO-25V max;ICBO-10nA max;hFE-50 min,hFE1/hFE2-1.0 max.
31	2N3514	6	N	Si	X26		PT-1.4W both sides;VCBO-80V max;VCEO-40V max;VEBO-5.0V max.
32	2N3515	6	N	Si	X27		Pt-1.4W both sides;VCBO-80V max;VCEO-40V max;VEBO-5.0V max.
33	2N3517	6	N	Si	X26		PT-1.4W both sides;VCBO-100V max;VCEO-60V max;VEBO-7.0V max.
34	2N3518	6	N	Si	X27		Pt-1.4W both sides;VCBO-100V max;VCEO-60V max;VEBO-7.0V max.
35	2N3519	6	N	Si	X26		PT-1.4W both sides;VCBO-60V max;VCEO-30V max;VEBO-7.0V max.
36	2N3520	6	N	Si	X27		Pt-1.4W both sides;VCBO-60V max;VCEO-30V max;VEBO-7.0V max.
37	2N3523	6	N	Si	X26		PT-1.4W both sides;VCBO-70V max;VCEO-55V max;VEBO-7.0V max.
38	2N3524	6	N	Si	X27		Pt-1.4W both sides;VCBO-70V max;VCEO-55V max;VEBO-7.0V max.
39	2N3941	6	N	Si	L2d		BVCBO-60V;IC-50mA;Pt-1.5W;VBE(1-2)-3.0mV;hFE1/2-.90min.
40	2N3942	6	N	Si	L2d		BVCBO-60V;IC-50mA;Pt-1.5W;VBE(1-2)-10mV;hFE1/2-.80min.
41	2N3943	6	N	Si	L2j		BVCBO-60V;IC-50mA;Pt-.75W;VBE(1-2)-3.0mV;hFE1/2-.90min.
42	2N3944	6	N	Si	L2j		BVCBO-60V;IC-50mA;Pt-.75W;VBE(1-2)-10mV;hFE1/2-.80min.
43	2N4042	6	N	Si	L2m		BVCBO-60V;IC-10mA;Pt-.50W;VBE(1-2)-3.0mV;hFE1/2-.90min.
44	2N4043	6	N	Si	L2m		BVCBO-45V;IC-10mA;Pt-.50W;VBE(1-2)-5.0mV;hFE1/2-.80min.
45	2N4099*	6	N	Si	L2m		VBE(1-2)-5.0mV max;IB(1-2)-10nA max;ΔIB(1-2)-.70nA/°C max.
46	2N4241MP	6	P	Ge	TO1		Matched Pair of 2N4241 for hFE1/2.
47	2N5505*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.5umhos;VGS(1-2)-5mV;VGS(1-2)/TΔ-.8mV.
48	2N5506*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.5umhos;VGS(1-2)-15mV;VGS(1-2)/TΔ-.8mV
49	2N5507*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.5umhos;VGS(1-2)-5mV;VGS(1-2)/TΔ-1.9mV
50	2N5508*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.5umhos;VGS(1-2)-15mV;VGS(1-2)/TΔ-1.9mV
51	2N5509*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.5umhos;VGS(1-2)-25mV;VGS(1-2)/TΔ-3.8mV
52	2N5510*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.0umhos;VGS(1-2)-5mV;VGS(1-2)/TΔ-.8mV
53	2N5511*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.0umhos;VGS(1-2)-15mV;VGS(1-2)/TΔ-.8mV
54	2N5512*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.0umhos;VGS(1-2)-5mV;VGS(1-2)/TΔ-1.9mV
55	2N5513*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.0umhos;VGS(1-2)-15mV;VGS(1-2)/TΔ-1.9mV
56	2N5514*	6	P#Ø	Si	L21		Pt-.3W;IG(1-2)-50pA;Yos(1-2)-1.0umhos;VGS(1-2)-25mV;VGS(1-2)/TΔ-3.8mV
57	2N5843*	6	PØ	Si	L2g		Pt 600mW;hFE1/2 .95 min;VBE(1-2) 2.0mV max;ΔVBE(1-2)ΔT 8.0uV/°C max.
58	2N5844*	6	PØ	Si	L2g		Pt 600mW;hFE1/2 .95 min;VBE(1-2) 2.0mV max;ΔVBE(1-2)ΔT 8.0uV/°C max.
59#	2OC6	6	P-A	Ge	TO3		Matched Pair of OC20; hFE1/hFE2-1.2 to 1.0
60#	2OC74	6	P	Ge	R8		Matched Pair of OC74;hFE1/2-1.15 at IE-50mA;VCE-6.0V.
61#	2OC83	6	P-A	Ge	R8		Matched Pair of OC83
62#	2OC84	6	P-A	Ge	R8		Matched pair of OC84;hFE1/2-.83 min.
63	2SB30	6	P-A	Ge	TO3		BVCBO-15V; Ic-.50A max; fae-7.0Mc; hFE-68/Ic-.20A
64	2SB31	6	P-A	Ge	TO3		BVCBO-15V; Ic-.50A max; fae-7.0Mc; hFE-115/Ic-.20A
65#	2SB145	6	P-A	Ge	TO3		BVCBO-30V; Ic-1.0A max; fae-7.0Mc; hFE-37/Ic-1.0A
66#	2SB146	6	P-A	Ge	TO3		BVCBO-30V; Ic-1.0A max; fae-7.0Mc; hFE-75/Ic-1.0A
67#	2SC96	6	N-PE	Si	L16		VCEO-15V;IC-150mA;PC-500mW max;hFE1/hFE2-.80-1.0 at 1mA
68	2SFT212	6	P	Ge	TO3	CØ	BVCBO-30V;Pc-30W at Tc;hFE-40 at FC-2.0A;fab-200kc min.
69#	2T3041	6					Max. Thermal Res. 3.0 oC/mW; Matched Pair 2T3031
70#	2T3042	6					Max. Thermal Res. 3.0 oC/mW; Matched Pair 2T3032
71#	2T3043	6					Max. Thermal Res. 3.0 oC/mW; Matched Pair 2T3033
72#	2xOC308	6	P	Ge			Pair of OC308
73#	2xOC318	6	P	Ge			Pair of OC318
74#	2X2N3055†	6	N-D	Si	TO3	CØ	Pt 117W;hFE1/2 1.6 at VCE 4.0V;IC 400mA;ft 1.0MHz.
75	3N96*	6	P Ø	Si	L24b		VGS(1-2)-100mV max;ΔVGS(1-2)/ΔT-1mV/deg.C;Yfs1/2-.95 min.
76	3N97*	6	P Ø	Si	L24b		VGS(1-2)-200mV max;ΔVGS(1-2)/ΔT-8mV/deg.C;Yfs1/2-.95 min.
77	4JD12X043	6	N-PE	Si	L2b		Pt-800mW; Two 2N2193 Transistors
78	4JD12X047	6	N-PE	Si	L2b		Pt-600mW; Two 2N2195 Transistors
79#	12A8	6	N	Si	L2b		Pt(Both Sides)-500mW;hFE1/hFE2-.60min;VBE1-VBE2-15mVmax.
80	12A104	6	N-PL	Si	L2		Pt-250mWea;ICBO-2.0nA max;hFE-25min;VBE1/2-5.0mV max;ft-60Mc min.
81	12A105	6	N	Si	TO18		PT300mW Both Sides;BVCBO 60Vmin;hFE match .90/1.0;VBE match 30mV.
82	12A107	6	N	Si	TO18		PT 300mw Both Sides BVCBO 100Vmin; hFE match .90/1.0;VBE match 3.0mV.
83	12A108	6	N-PL	Si	TO18		PT-.75W both sides;VCBO-50V min;hFE match-40%;VBE match-15mV.
84	12A304	6	N-PL	Si	X26		Pt-250mWea;ICBO-2.0nA max;hFE-25min;Vbe1/Vbe2-5.0mVmax;fT-60Mcmin.
85	12A308	6	N-PL	Si	X26		Pt-1.4W both sides;VCBO-50Vmin;hFE match-40%;VBE match-15mV.
86	12A904	6	N-PL	Si	X27		Pt-250mWea;ICBO-2.0nA max;hFE-25min;Vbe1/Vbe2-5.0mVmax;fT-60Mcmin.
87	12G1	6	N-PL	Si	TO5		PT-1.5W both sides;VCBO-35V min;hFE-30mA.
88	12G2	6	N-PL	Si	TO5		PT-1.5W both sides;VCBO-30V min;hFE match-.85/1.0;VBE match-10V.
89	12G101	6	N-PL	Si	TO18		PT-.75W both sides; VCBO-35V min.
90	12G301	6	N-PL S	i X	26		Pt-1.4W Both Sides;VCBO-35V min;ICBO-20nA.
91	12G302	6	N-PL	Si	X26		Pt-1.4W Both Sides;VCBO-35V min;ICBO-20nA.
92	12H301	6	N-PL	Si	X26		Pt-1.4W Both Sides;VCBO-30V min;ICBO-10nA.
93	12H302	6	N-PL	Si	X26		Pt-1.4W Both Sides;VCBO-30V min;hFE Match-.80/1.0;VBE Match 10mV.
94	12H303	6	N-PL	Si	X26		Pt-1.4W Both Sides;VCBO-25V min;hFE Match-.85/1.0
95	12H901	6	N-PL	Si	X27		Pt-1.4W Both Sides;VCBO-30V min;ICBO-10nA.
96	12H902	6	N-PL	Si	X27		Pt-1.4W Both Sides;VCBO-30V min;hFE Match-.80/1.0
97	12J301	6	N-PL	Si	X26		Pt-1.4W Both Sides;VCBO-40V;ICBO-.40uA.
98	12J302	6	N-PL	Si	X26		Pt-1.4W Both Sides;VCBO-40V;ICBO-.40uA;hFE Match-.80/1.0
99	12J303	6	N-PL	Si	X26		Pt-1.4W Both Sides;VCBO-40V;ICBO-.40uA;hFE Match-.80/1.0
100	12J901	6	N-PL	Si	X27		Pt-1.4W Both Sides;VCBO-40VK;ICBO-.40uA.
101	12J902	6	N-PL	Si	X27		Pt-1.4W Both Sides;VCBO-40V;ICBO-.40uA;hFE Match-.80/1.0
102	12J905	6	N-PL	Si	X27		PT-1.4W both sides;VCBO-40V min;hFE match-.80/1.0
103	12X084B	6	N	Si	X14		VCEO-15V max;hFE-30 min at 10mA;ICBO-200mA max at 20V;Cob-6pf max
104	12X165	6	N-PL	Si	L2		PA-300mW; VCEO-55V; hFE-100 min; hFE1/hFE2-.80 to 1.0.
105#	30T2	6	P-PL	Si			Pt-.25W; VCBO-50V; VCEO-30V; VEBO-5.0V.
106#	40809	6	P-N	Ge	TO1	A	Matched Pair of AC127 and AC128.
107	A520	6	N-PL	Si	RO52g		VCBO-80V;Ic-50mA max;Pt-1200mW(both sides);VBE1-VBE2-3mV;hFE-40 min.
108	A521	6	N-PL	Si	RO52g		VCBO-80V;Ic-50mA max;Pt-1200mW(both sides);VBE1-VBE2-3mV;hFE-100 min.
109	A600	6	N-PL	Si	L2b		VBE(1-2)-10mV;BVCBO-50V;IC-50mA;ft-50Mc;ICBO-10nA max;hFE1/2-.90
110	A601	6	N-PL	Si	L2b		VBE(1-2)-10mV;IC-50mAmax;BVCBO-50V;ICBO-10nAmax;hFE-175 min.

13. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	A602	6	N-PL	Si	L2b		BVEO-35V;IC-30mA;ft-30Mc;hFE1/2-.80;VBE(1-2)-20mV max;hFE-50 min.
2	A603	6	N-PL	Si	L2b		BVEO-35V;IC-30mA;ft-30Mc;hFE1/2-.80;VBE(1-2)-5.0mV max;hFE-100 min.
3	A604	6	N-PL	Si	L2b		BVEO-35V;IC-30mA;ft-30Mc;hFE1/2-.80;VBE(1-2)-10mV max;hFE-100 min.
4	A607*	6	N-PL	Si	L2b		VBE1/VBE2-1.5mV;hFE1/hFE2-1.0 max;Pt-.30W(both);IC-30mA.
5	A608*	6	N-PL	Si	L2b		VBE1/VBE2-3.0mV;hFE1/hFE2-1.0 max;Pt-.30W(both);IC-30mA.
6	A610L*	6	N	Si	X70a	DH	IDSS1/2-.95 min;VGS1/2-5.0mV max;yfs1/2-.97 min.
7	A610S*	6	N	Si	X70	DH	IDSS1/2-.95 min;VGS1/2-5.0mVmax;Yfs1/2-.97 min.
8	A611L*	6	N	Si	X70a	DH	IDSS1/2-.95 min;VGS1/2-10mV max;Yfs1/2-.95 min.
9	A611S*	6	N	Si	X70	DH	IDSS1/2-.95 min;VGS1/2-10mVmax;Yfs1/2-.95 min.
10	A640*	6	NØ	Si	X36a		VBE1/VBE2-3.0mV max;hFE1/hFE2-1.0 max;Pt-.30W(both);IC-30mA.
11	A640L*	6	N-PLØ	Si	X56a	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 3.0mV max.
12	A640S*	6	N-PLØ	Si	X56	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 3.0mV max.
13	A641*	6	NØ	Si	X36a		VBE1/VBE2-3.0mV max;hFE1/hFE2-1.0 max;Pt-.30W(both);IC-30mA.
14	A641L*	6	N-PLØ	Si	X56a	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 3.0mV max.
15	A641S*	6	N-PLØ	Si	X56	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 3.0mV max.
16	A642*	6	NØ	Si	X36a		VBE1/VBE2-3.0mV max;hFE1/hFE2-1.0 max;Pt-.30W(both);IC-30mA.
17	A642L*	6	N-PLØ	Si	X56a	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 3.0mV max.
18	A642S*	6	N-PLØ	Si	X56	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 3.0mV max.
19	A643L*	6	N-PL	Si	X56a	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 15mV max.
20	A643S*	6	N-PL	Si	X56	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 15mV max.
21	A644L*	6	N-PL	Si	X56a	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 15mV max.
22	A644S*	6	N-PL	Si	X56	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 15mV max.
23	A645L*	6	N-PL	Si	X56a	A	Pt 300mW both sides;hFE1/2 1.0 max;VBE(1-2) 15mV max.
24	A645S*	6	N-PL	Si	X56	A	Pt 300mW both sides; hFE 1/2 1.0 max; VBE (1-2) 15mVmax.
25	A646*	6	N-PL	Si	L2b		VBE1/VBE2-20mV max;hFE1/hFE2-1.0 max;Pt-.30W(both);IC-30mA.
26	A649L*	6	N-PLØ	Si	X56a	A	Pt-.30W;hFE(1-2)-.90min;(VBE 1-VBE2)-1.0mV max;BVCEO-30V.
27	A649S*	6	N-PLØ	Si	X56	A	Pt-.30W;hFE(1-2)-.90min;(VBE 1-VBE2)-1.0mV max;BVCEO-30V.
28	A1480	6	N-PE	Si	TO18		Pt-300mW max;VCEO-5.0V;VEBO-5.0V;Voffset-250uV max;ΔVoff-50uV.
29	ASA2	6	N-PL	Si	L2		Pc-.75W; BVCBO-60V; BVEBO-7.0V; HFE-45min at IC-10ma, VCE-10V.
30	ASA1000	6	N-PL	Si	TO5		Pc-.50W max. BVCBO-60V;hFE1/hFE2-1.25max; VBE1-VBE2-10 mV max.
31	ASA1001	6	N-PL	Si	TO5		Pc-.50W max. BVCBO-60V;hFE1/hFE2-1.1 max; VBE1-VBE2-20 mV max.
32#	BC327/BC328	6	P-PE	Si	X64b	A	hFE1/hFE2 1.41 max;Pt 360mW;BVCES 50V;ft 100MHz.
33#	BC338/BC328	6	N-PE	Si	X64b	A	hFE1/hFE2 1.41 max;Pt 360mW;BVCES 30V;ft 100MHz.
34#	BFX10	6	P-PE	Si	L2d		Pt-.55W;ICBO-10nA max;hFE-2 min;hFE bal .80 min;VBE diff 3mV max.
35#	BSY42	6	N-PE	Si	L2		Pc-.70W max; BVCBO-20V; Ic-200mA;hFE-25-120;ft-200 min.
36#	BSY43	6	N-PE	Si	L2		Pc-.70W max; BVCBO-15V; Ic-200mA;hFE-30-120;ft-300 min.
37	CD91*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
38	CD92*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
39	CD93*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
40	CD94*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
41	CD95*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
42	CD96*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
43	CD97*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
44	CD98*	6	P-E	Si	L17a		hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
45	CD912*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
46	CD922*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
47	CD932*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
48	CD942*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
49	CD952*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
50	CD962*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
51	CD972*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-5.0mV max;ΔVBE1/2-10uV/°C max.
52	CD982*	6	P-E	Si	TO46	AØ	hFE1/2-.80 min;VBE1/2-10mV max;ΔVBE1/2-20uV/°C max.
53	CS2639*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.90 min;VBE(1-2)-5.0mV;hFE-65 max. at IC-1.0mA.
54	CS2640*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.80 min;VBE(1-2)-10mV;hFE-65 max. at IC-1.0mA.
55	CS2642*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.90 min;VBE(1-2)-5.0mV;hFE-65 max. at IC-1.0mA.
56	CS2643*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.80 min;VBE(1-2)-10mV;hFE-65 max. at IC-1.0mA.
57	CS29008*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.90 min;VBE(1-2)-5.0mV;hFE-200 max at IC-.10mA.
58	CS29009*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.80 min;VBE(1-2)-10mV;hFE-200 max at IC-.10mA.
59	CS29011*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.90 min;VBE(1-2)-5.0mV;hFE-300 max at IC-.10mA.
60	CS29012*	6	N-DPL	Si	L2r		Pt-.30W;hFE1/2-.80 min;VBE(1-2)-10mV;hFE-300 max at IC-.10mA.
61	D12A8	6	N-PL	Si	L17f		Pt(both sides)-500mW;hFE1/2-.60 min;VBE(1-2)-15mV max.
62	D12E026	6	N-PL	Si	L2b		hFE1/2-.60 min,1.0 max;VBE(1-2)-15mV max;Pc-600mW both.
63	D12E109	6	N-PL	Si	L2p		Pt(both sides)-300mW;VCBO-60V;IC-50mA;hFE1/2-.90 min.
64	D12E126	6	N-PL	Si	L2p		hFE1/2-.60 min,1.0 max;VBE(1-2)-15mV max;Pc-500mW both.
65	D12X084A	6	N	Si	X14		VCEO-15V max;hFE-30 min. at 10mA;ΔhFE-20%;ΔVBE±5.0mV.
66	DFNA3-50*	6	N-E	Si	TO18		Pt-300mW both sides;VGS(1-2)-50mV;gfs1/2-.95umhos min.
67	DFNA3-100*	6	N-E	Si	TO18		Pt-300mW both sides;VGS(1-2)-100mV;gfs1/2-.95umhos min.
68	DP1001*	6	P*	Si	TO71		gm1/2-.95 min;VGS(1-2)-5.0mV;ΔVGS(1-2)/ΔT-§#UV/°C.
69	DP1002*	6	P*	Si	TO71		gm1/2-.95 min;VGS(1-2)-15mV;ΔVGS(1-2)/ΔT-10uV/°C.
70	DP1003*	6	P*	Si	TO71		gm1/2 .95 min;VGS(1-2) 5.0mV;ΔVGS(1-2)/ΔT 25uV/°C.
71	DP1004*	6	P*	Si	TO71		gm1/2-.95 min;VGS(1-2)-15mV;ΔVGS(1-2)/ΔT-25uV/°C.
72	DP1005*	6	P*	Si	TO71		gm1/2-.90 min;VGS(1-2)-25mV;ΔVGS(1-2)/ΔT-50uV/°C.
73	DP1006*	6	P*	Si	TO71		gm1/2-.95 min;VGS(1-2)-5.0mV;ΔVGS(1-2)/ΔT-10uV/°C.
74	DP1007*	6	P*	Si	TO71		gm1/2-.95 min;VGS(1-2)-15mV;ΔVGS(1-2)/ΔT-10uV/°C.
75	DP1008*	6	P*	Si	TO71		gm1/2-.95 min;VGS(1-2)-5.0mV;ΔVGS(1-2)/ΔT-25uV/°C.
76	DP1009*	6	P*	Si	TO71		gm1/2-.95 min;VGS(1-2)-15mV;ΔVGS(1-2)/ΔT-25uV/°C.
77	DP1010*	6	P*	Si	TO71		gm1/2-.90 min;VGS(1-2)-2.0mV;ΔVGS(1-2)/ΔT-50uV/°C.
78	FM1100*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)2.0mVmax;IG(1-2)10nA max;Yfs 1-2 1.0 max.
79	FM1101*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max; VGS(1-2)5.0mVmax;IG(1-2)10nA max;Yfs 1/2 1.0 max.
80	FM1102*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0 max.
81	FM1103*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0 max.
82	FM1104*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0 max.
83	FM1105*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)2.0mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
84	FM1106*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)5.0mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0 max.
85	FM1107*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0 max.
86	FM1108*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2) 10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0 max.
87	FM1109*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0 max;VGS(1-2)25mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0 max.
88	FM1110*	6	N	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2) 10mVmax;IG(1-2)50nAmax;Yfs 1/2 1.0max.
89	FM1111*	6	N	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)50mVmax;IG(1-2)50nAmax Yfs 1/2 1.0 max.
90	FM1200*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)2.0mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
91	FM1201*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)5.0mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
92	FM1202*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
93	FM1203*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
94	FM1204*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)25mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
95	FM1205*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)2.0mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
96	FM1206*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)5.0mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
97	FM1207*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
98	FM1208*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
99	FM1209*	6	NØ	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)25mVmax;IG(1-2)10nAmax;Yfs 1/2 1.0max.
100	FM1210*	6	N	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)10mVmax;IG(1-2)50nAmax;Yfs 1/2 1.0max.
101	FM1211*	6	N	Si	L74		Pd 500mW;IDSS 1/2 1.0max;VGS(1-2)50mVmax;IG(1-2)50nAmax;Yfs 1/2 1.0max.
102#	FSP1	6	N	Si			Pt-.80W;hFE1/2-.90 min;VCEO-20V min;ICBO-.60nA.
103	FT4020	6	P-DPE	Si	L17e		BVCEO-45V;20% hFE match;Cob-6.0pf;VBE(1-2)-5.0mV;ICBO-10nA max.
104	FT4021	6	P-DPE	Si	L17e		BVCEO-60V;20% hFE match;Cob-6.0pf;VBE(1-2)-5.0mV;ICBO-10nA max.
105	FT4022	6	P-DPE	Si	L17e		BVCEO-60V;20% hFE match;Cob-6.0pf;VBE(1-2)-5.0mV;ICBO-10nA max.
106	FT4023	6	P-DPE	Si	L17e		BVCEO-45V;10% hFE match;Cob-6.0pf;VBE(1-2)-3.0mV;ICBO-10nA max.
107	FT4024	6	P-DPE	Si	L17e		BVCEO-60V;10% hFE match;Cob-6.0pf;VBE(1-2)-3.0mV;ICBO-10nA max.
108	FT4025	6	P-DPE	Si	L17e		BVCEO-60V;10% hFE match;Cob-6.0pf;VBE(1-2)-3.0mV;ICBO-10nA max.
109	HSC3921*	6	N-E#	Si	L21e		VGS(1-2) 5.0mV max;IDSS1/2 1.0;yfs1/2 1.0.
110	HSC3954*	6	N-E#	Si	L21e		VGS(1-2) 5.0mV max;IDSS1/2 1.0;yfs1/2 1.0.

13. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	CATEGORY STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD	CODE	DESCRIPTION
1	KY4042	6	N	Si	u36			BVCBO-60V;IC-10mA;Pt-.50W;ΔVBE-3.0uV/0C;VBE(1-2)-3.0mV;hFE1/2-.90min.
2	KY4043	6	N	Si	u36			BVCBO-45V;IC-10mA;Pt-.50W;ΔVBE-10uV/0C;VBE(1-2)-3.0mV;hFE1/2-.80min.
3	KY4099	6	N	Si	u36			BVCBO-55V;IC-10mA;Pt-.50W;ΔVBE-5.0uV/0C;VBE(1-2)-5.0mV;hFE1/2-.85min.
4	MA7807	6	P-A	Si	TO5	A		Matched pair of HA7806;ΔVoff-100uVmax.
5	MA7809	6	P-A	Si	TO5	A		Matched pair of HA7808;ΔVoff-50uVmax.
6	MD981	6	N-E	Si	L2d			Pt(both sides)-600mW;VCBO-60V;IC-500mA;hFE-35 min.
7	MD981F	6	N-E	Si	L2f			Pt(both sides)-350mW;VCBO-60V;IC-500mA;hFE-35 min.
8	MD982	6	P-E	Si	L17c			Pt(both sides)-600mW;VCBO-60V;IC-500mA;hFE-35 min.
9	MD982F	6	P-E	Si	L17d			Pt(both sides)-350mW;VCBO-60V;IC-500mA;hFE-35 min.
10	MD990	6	P-E	Si	L17c			Pt(both sides)-600mW;VCBO-50V;IC-600mA;hFE-50 min.
11	MD1121F	6	N	Si	X22			hFE-30/120 at IC-100uA;(VBE1-VBE2) max.-10mV at IC-100uA.
12	MD1122F	6	N	Si	X22			hFE-30/120 at IC-100uA;(VBE1-VBE2) max.-5.0mV at IC-100uA.
13	MD1123F	6	P	Si	X22			hFE-30/120 at IC-100uA;(VBE1-VBE2) max.-10mV at IC-100uA.
14	MD1124	6	P	Si	L2			hFE-30/120 at Ic-100uA;(VBE1-VBE2) max.-10mV at Ic-100uA
15	MD1124F	6	P	Si	X22			hFE-30/120 at IC-100uA;(VBE1-VBE2) max.-10mV at IC-100uA.
16	MD1125	6	P	Si	L2			hFE-30/120 at Ic-100uA;(VBE1-VBE2) max.-5.0mV at Ic-100uA
17	MD1125F	6	P	Si	X22			hFE-30/120 at IC-100uA;(VBE1-VBE2) max.-5.0mV at IC-100uA.
18	MD1126	6	N-E	Si	L2d			Pt(both sides)-400mW;VCBO-40V;IC-200mA;hFE-30 min.
19	MD1127	6	N-E	Si	L2d			Pt(both sides)-400mW;VCBO-40V;IC-200mA;hFE-30 min.
20	MD1128†	6	N-PE	Si	L2d			Pt(both sides)-400mW;VCBO-40V;hFE-25 min at IC-10mA and VCE-1V.
21	MD1131	6	N-E	Si	L2d			VCBO-30V;VCEO-15V;IC-50mA max;ft-600Mc min;hFE-50 min.at IC-1mA.
22	MD1131F	6	N-E	Si	L2f			VCBO-30V;VCEO-15V;IC-50mA max;ft-600Mc min;hFE-50 min.at IC-1mA.
23	MD1132F	6	N-E	Si	X22			hFE-50 min. at IC-1.0mA;VBE(1-2)-5.0mV max. at IC-1.0mA.
24	MD1133	6	N-EA	Si	L2d			Pt(Both Sides)-600mW;VCBO-60V;hFE-30 min at IC-150mA and VCE-5V.
25	MD1133F	6	N-EA	Si	L2f			Pt(Both Sides)-350mW;VCBO-60V;hFE-30 min at IC-150mA and VCE-5V.
26	MD1134	6	N-E	Si	R131b			Pt 600mW(both sides);VCBO 40V;hFE 50 min. at 1C 10mA and VCE 1.0V.
27	MD2369B*	6	N-AN	Si	L66a			Pt-600mW(both sides);hFE1/2-.80 min;VBE1/2-10mV max;ton-15ns max.
28	MD2369BF*	6	N-AN	Si	TO89			Pt-350mW(both sides);hFE1/2-.80 min;VBE1/2-10mV max;ton-15ns max.
29	ME501Ø	6	N-PE	Si	L2			BVCEO-10V;BVEBO-3.0V;ICBO-10nA max at VCB-10V;hFE-60min/IC-100uA.
30	ME502	6	N-PE	Si	L3			Pair of 2N1893, Darlington Amplifier, hFE-750 min. at IC-10ma
31	ME504	6	N-PE	Si	L2			BVCBO-30V;BVEBO-3.0V;ICBO-10nA max./VCB-15V;hFE-100 min/IC-100uA
32	MP2060-1	6	P	Ge	TO3		CØ	Matched Pair of MP2060; hFE-30 min., 45 max.
33	MP2060-2	6	P	Ge	TO3		CØ	Matched Pair of MP2060; hFE-40 min., 60 max.
34	MP2060-3	6	P	Ge	TO3		CØ	Matched Pair of MP2060; hFE-50 min., 75 max.
35	MP2060-4	6	P	Ge	TO3		CØ	Matched Pair of MP2060; hFE-60 min., 90 max.
36	MP2060-5	6	P	Ge	TO3		CØ	Matched Pair of MP2060; hFE-80 min., 120 max.
37	MP2060-6	6	P	Ge	TO3		CØ	Matched Pair of MP2060; hFE-100 min., 150 max.
38	MP2060-7	6	P	Ge	TO3		CØ	Matched Pair of MP2060; hFE-130 min., 200 max.
39	MP2061-1	6	P	Ge	TO3		CØ	Matched Pair of MP2061; hFE-30 min., 45 max.
40	MP2061-2	6	P	Ge	TO3		CØ	Matched Pair of MP2061; hFE-40 min., 60 max.
41	MP2061-3	6	P	Ge	TO3		CØ	Matched Pair of MP2061; hFE-50 min., 75 max.
42	MP2061-4	6	P	Ge	TO3		CØ	Matched Pair of MP2061; hFE-60 min., 90 max.
43	MP2061-5	6	P	Ge	TO3		CØ	Matched Pair of MP2061; hFE-80 min., 120 max.
44	MP2061-6	6	P	Ge	TO3		CØ	Matched Pair of MP2061; hFE-100 min., 150 max.
45	MP2061-7	6	P	Ge	TO3		CØ	Matched Pair of MP2061; hFE-130 min., 200 max.
46	MP2062-1	6	P	Ge	TO3		CØ	Matched Pair of MP2062; hFE-30 min., 45 max.
47	MP2062-2	6	P	Ge	TO3		CØ	Matched Pair of MP2062; hFE-40 min., 60 max.
48	MP2062-3	6	P	Ge	TO3		CØ	Matched Pair of MP2062; hFE-50 min., 75 max.
49	MP2062-4	6	P	Ge	TO3		CØ	Matched Pair of MP2062; hFE-60 min., 90 max.
50	MP2062-5	6	P	Ge	TO3		CØ	Matched Pair of MP2062; hFE-80 min., 120 max.
51	MP2062-6	6	P	Ge	TO3		CØ	Matched Pair of MP2062; hFE-100 min., 150 max.
52	MP2062-7	6	P	Ge	TO3		CØ	Matched Pair of MP2062; hFE-130 min., 200 max.
53	MP2063-1	6	P	Ge	TO3		CØ	Matched Pair of MP2063; hFE-30 min., 45 max.
54	MP2063-2	6	P	Ge	TO3		CØ	Matched Pair of MP2063; hFE-40 min., 60 max.
55	MP2063-3	6	P	Ge	TO3		CØ	Matched Pair of MP2063; hFE-50 min., 75 max.
56	MP2063-4	6	P	Ge	TO3		CØ	Matched Pair of MP2063; hFE-60 min., 90 max.
57	MP2063-5	6	P	Ge	TO3		CØ	Matched Pair of MP2063; hFE-80 min., 120 max.
58	MP2063-6	6	P	Ge	TO3		CØ	Matched Pair of MP2063; hFE-100 min., 150 max.
59	MP2063-7	6	P	Ge	TO3		CØ	Matched Pair of MP2063; hFE-130 min., 200 max.
60#	MT102B*	6	P-MOS	Si	L54a			ΔThreshold Voltage-200mV max;ΔrDS-60Ω max;Δgm-35uA/V typ.
61#	MTD2974	6	N-DPLØ	Si	u82			Pt 140mW(both sides);hFE1/2 900m min;VBE(1-2) 3.0mV max;ΔVBE(1-2)/ΔT 10uV/°C.
62#	MTD2978	6	N-DPLØ	Si	u82			Pt 140mW(both sides);hFE1/2 900m min;VBE(1-2) 3.0mV max;ΔVBE(1-2)/ΔT 10uV/°C.
63#	MTD2979	6	N-DPLØ	Si	u82			Pt 140mW(both sides);hFE1/2 900m min;VBE(1-2) 3.0mV max;ΔVBE(1-2)/ΔT 10uV/°C.
64#	NKT450X2	6	P	Ge	TO3			BVCBO-36V; hFE-30 min. at 1.0A; ICBO-100uA at 1.5V.
65	NS7000	6	N	Si	X17			Pd-200mW;BVCEO-45V min;hFE-125 at 10uA;hFE1/hFE2-.90 min.
66	NS7001	6	N	Si	L2			Pd-300mW;BVCEO-45V min;hFE-125 at 10uA;hFE1/hFE2-.90 min.
67	NS7070	6	N-PL	Si	X23			Pt(both sides)-200mW;hFE1/2-.90min;VBE(1-2)-5.0mVmax.
68#	OC740M	6	P	Si	RO66			50uV max; Voff-2.0mV max.
69#	OC740Q	6	P	Si	RO66			50uV max; Voff-2.0mV max; Quadruple.
70	QD100-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 15% max;VBE(1-2) 5.0mV max;IB(1-2) 25nA max.
71	QD100-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 15% max;VBE(1-2) 5.0mV max;IB(1-2) 25nA max.
72	QD101-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 5.0nA max.
73	QD101-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 3.0mV max;IB(1-2) 10nA max.
74	QD102-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 5.0nA max.
75	QD102-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 5.0nA max.
76	QD103-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 5.0nA max.
77	QD103-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 5.0nA max.
78	QD104-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 5.0nA max.
79	QD104-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 5.0nA max.
80	QD400-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 15% max;VBE(1-2) 5.0mV max;IB(1-2) 5.0nA max.
81	QD400-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 15% max;VBE(1-2) 5.0mV max;IB(1-2) 5.0nA max.
82	QD401-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 3.0mV max;IB(1-2) 2.0nA max.
83	QD401-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 3.0mV max;IB(1-2) 2.0nA max.
84	QD402-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 2.0nA max.
85	QD402-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 2.0nA max.
86	QD403-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 2.0nA max.
87	QD403-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 2.0nA max.
88	QD404-71*	6	P-E	Si	L2p			Pt 500mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 2.0nA max.
89	QD404-78*	6	P-E	Si	L2d			Pt 750mW(both sides);hFE1/2 10% max;VBE(1-2) 1.5mV max;IB(1-2) 2.0nA max.
90	RT3501	6	P-PL	Si	TO46			Matched Pair of RT3500; Pd-400mW
91	SA2253*	6	N	Si	L8a			BVCBO-40V min;hFE1/hFE2-.7/1.0;VBE1-VBE2-20mV at IC-100uA
92	SA2254	6	N	Si	L8a			hFE1/hFE2-.8-1.0;VBE1-VBE2-10mV at Ic-100uA;BVCBO-60V min.
93	SA2255	6	N	Si	L8a			BVCBO-45V min;hFE1/hFE2-.8-1.0;VBE1-VBE2-10mV at Ic-50uA
94	SA2644*	6	N-PE	Si	L2b			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-.50mV max.
95	SA2648*	6	N-PF	Si	L2b			Pt-.6W;hFE1/2-.9 min;VBE(1-2)-2mV max;ΔVBE1-2/ΔT-.3mV max.
96	SA2710*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
97	SA2711*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
98	SA2712*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
99	SA2713*	6	N	Si	L2t			Pt-.6W;hFE1/2-.80 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
100	SA2714*	6	N	Si	L2t			Pt-.6W;hFE1/2-.80 min;VBE(1-2)-5mV max;ΔVBE(1-2)/ΔT-10uV/deg.C.
101	SA2715*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
102	SA2716*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
103	SA2717*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
104	SA2718*	6	N	Si	L2t			Pt-.6W;hFE1/2-.80 min;VBE(1-2)-5mV max;ΔVBE(1-2)/ΔT-10uV/deg.C.
105	SA2719*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
106	SA2720*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
107	SA2721*	6	N	Si	L2t			Pt-.6W;hFE1/2-.80 min;VBE(1-2)-5mV max;ΔVBE(1-2)/ΔT-10uV/deg.C.
108	SA2722*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
109	SA2723*	6	N	Si	L2t			Pt-.6W;hFE1/2-.90 min;VBE(1-2)-3mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
110	SA2724*	6	N	Si	L2t			Pt-.6W;hFE1/2-.80 min;VBE(1-2)-5mV max;ΔVBE(1-2)/ΔT-10uV/deg.C.

13. MISCELLANEOUS TRANSISTORS

IN ORDER OF (1) CATEGORY & (2) TYPE No.

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	SA2738*	6	N	Si	L2t		Pt-.6W;hFE1/2-.90 min;VBE(1-2)-1.5mV max;ΔVBE(1-2)/ΔT-3uV/deg.C.
2	SA2739*	6	N	Si	L2t		Pt-.6W;hFE1/2-.90 min;VBE(1-2)-2.5mV max;ΔVBE(1-2)/ΔT-5uV/deg.C.
3	SD5010*	6	P-MOSⓏ	Si	L53		Pt 325mW(each side) at 25°C Case temp;yfs 1/2 800m min;VGS(1-2) 70mV.
4	SD5011*	6	P-MOSⓏ	Si	L54		Pt 325mW(each side) at 25°C Case temp;yfs 1/2 800m min;VGS(1-2) 70mV.
5	SD5012*	6	P-MOSⓏ	Si	L53		Pt 325mW(each side) at 25°C Case temp;yfs 1/2 800m min;VGS(1-2) 70mV.
6	SD5013*	6	P-MOSⓏ	Si	L54		Pt 325mW(each side) at 25°C Case temp;yfs 1/2 800m min;VGS(1-2) 70mV.
7	SD5014*	6	P-MOSⓏ	Si	L53		Pt-325mW(each side) at 25°C case temp;yfs 1/2 .80min;VGS 1/2-200mV max.
8	SD5015*	6	P-MOSⓏ	Si	L54		Pt-325mW(each side) at 25°C case temp;yfs 1/2 .80min;VGS 1/2-200mV max.
9	SD5050*	6	N-MOSⓏ	Si	L53		Pt-325mW(each side) at 25°C casetemp;yfs 1/2 .80min;VGS 1/2-200mV max.
10	SD5051*	6	N-MOSⓏ	Si	L54		Pt-325mW(each side) at 25°C case temp;yfs 1/2 .80min;VGS 1/2-200mV max.
11#	SL360	6	NPN	Si	L44a		BVCBO 15V min;BVCEO 8V min;hFE 30 min;VCE(sat) 400mV max;Ic 10uA.
12	SMT100	6	P	Si	L17a		BVCEO-45V;IC-30mA max;Pt-.60W;VBE(1-2)-20mV;Cob-6.0pf.
13	SMT101	6	P	Si	L17a		BVCEO-45V;IC-30mA max;Pt-.60W;VBE(1-2)-20mV;Cob-6.0pf.
14	SMT102	6	P	Si	L17a		BVCEO-45V;IC-30mA max;Pt-.60W;VBE(1-2)-10mV;hFE1/hFE2-.80 min.
15	SMT103	6	P	Si	L17a		BVCEO-45V;IC-30mA max;Pt-.60W;VBE(1-2)-10mV;hFE1/hFE2-.80 min.
16	SMT104	6	P	Si	L17a		BVCEO-45V;IC-30mA max;Pt-.60W;VBE(1-2)-5.0mV;hFE1/hFE2-.90 min.
17	SMT105	6	P	Si	L17a		BVCEO-45V;IC-30mA max;Pt-.60W;VBE(1-2)-5.0mV;hFE1/hFE2-.90 min.
18	SP8300	6	N-PL	Si	L8a		Pc-.30W;BVCBO-40V;hFE-30 min/IC-10mA;ICBO-.025uA max.
19	SP8302	6	N-PL	Si	L8a		Pc-.50W;BVCBO-100V;hFE-75 min/IC-10mA;ICBO-.025mA max.
20	SP8303	6	N-PL	Si	L8a		Pc-.50W;BVCBO-100V;hFE-35 min/IC-10mA;ICBO-.025mA max.
21	SP8304	6	N-PL	Si	L8a		Pc-.30W;BVCBO-40V;hFE-30 min/IC-10mA;ICBO-.025uA max.
22	SP8307	6	P-PL	Si	L8a		Pc-.30W;BVCBO-20V;hFE-35 min/IC-10mA;ICBO-.01uA max.
23	SP8309	6	N-PL	Si	L8a		Pc-.50W;BVCBO-75V;hFE-40 min/IC-150mA;ICBO-.01uA max.
24	SP8310	6	N-PLØ	Si	L8a		Pc-.50W;BVCBO-75V;hFE-100 min/IC-150mA;ICBO-.01uA max.
25	SP8311	6	N-PL	Si	L8a		Pc-.50W;BVCBO-120V;hFE-40 min/IC-150mA;ICBO-.01uA max.
26	SP10801	6	N-DPL	Si	TO89		hFE1/hFE2-0.8minΔ VBE1-VBE2-1.6mV max,NF-4.0db max
27	SP10810	6	P-DPE	Si	TO89		hFE1/hFE2-0.8minΔ VBE1-VBE2-4.0mV max,hFE-35min at 10mA-1.0V
28	SU2074*	6	N	Si	L21		Pt-300mW; gm1/2-.95 min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-10uV/Deg.C.
29	SU2075*	6	N	Si	L21		Pt-300mW; gm1/2-.95 min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-15uV/Deg.C.
30	SU2076*	6	N	Si	L21		Pt-250mW; gm1/2-.95 min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-10uV/Deg.C.
31	SU2077*	6	N	Si	L21		Pt-250mW; gm1/2-.95 min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-25uV/Deg.C.
32	SU2078*	6	N	Si	L21		Pt-250mW;gm 1/2-.95min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-35uV/Deg. C.
33	SU2079*	6	N	Si	L21		Pt-250mW; gm1/2-.95 min;VGS(1-2)-15mV max;ΔVGS(1-2)/ΔT-60uV/Deg.C.
34#	TA-M93	6	NPN		TO5		Dual 2N930;10% hFE match;5.0mV VBE match;hFE at 10uA-50 min.
35	U205*	6	N	Si	TO71		Pt-.30W;IG(1-2)-5.0nA max;VGS(1-2)-5.0mV max;gfs1/2-.95 min.
36	U206*	6	N	Si	TO71		Pt-.30W;IG(1-2)-5.0nA max;VGS(1-2)-10mV max;gfs1/2-.95 min.
37	U207*	6	N	Si	TO71		Pt-.30W;IG(1-2)-5.0nA max;VGS(1-2)-15mV max;gfs1/2-.95 min.
38	UD1000	6	P-PE	Si	L38		Pt(Both Sides)-200mW;BVCBO-50V;Vo(1-2)-100uV max;IB and IC-20mA.
39	UD2000	6	P-PE	Si	L2n		Pt-400mW;BVCBO-50V;VBE1/2-5mV max;hFE1/2-.90 min;ΔVBE1-2-10uV/degC
40	JAN1N4378	7	NΔ	Si	X69		Pt-50mW;ID-10nAmax;IL-9.0mAmax;tr-1.5uSmax;VCE-50V;VEC-8V.
41	2N318	7	P-A	Ge			Pc-50mW; VCE-12V max; Sens.-25uA/ft can;fab-750kc.
42	2N577	7	P	Ge			Pt-25mW; IC-10mA; Idark-300uA; Photosens-.30A/lumen.
43	800	7	N-G	Ge			Max. Coll. Dist. 65mW; BVCE 20V; IC 5.0mA; Max. Temp. 75 deg.C.A.
44#	BPX30	7	NΔ	Si	X8	AØ	Pt-500mW;ICE(D)-1.0uA max;Sens-100mA/mW/cm2;tr-3.0usec;tf-3.0usec.
45#	BPX59	7	NΔ	Si	X8k	AØ	Darlington;Pt 200mW;Ic 5.0mA at EA 100lx;tr 200us;tf 150us;Max spectral Sens 780nm.
46#	BPY62	7	N-PE	Si	X8a	A§	Pt-.20W;IC-1.0mA min. at B-1000 lux;Sens.-1.0uM;VCE-15V.
47#	BPY66	7	N-DPL	Si	X52		ID-.10uA max;IL-.80mA min;BVCEO-5.0V min.
48	CLR2090	7	N-PEΔ	Si	L3k		Darlington;Pd 250mW;BVCEO 40V min;IL 600uA min at 20uW/cm sq;tr 100us;tf 150us.
49	CLR2191	7	N-PEΔ	Si	L3k		Darlington;Pd 250mW;BVCEO 40V min;IL 4.0mA min at 20uW/cm sq;tr 100us;tf 150us.
50	CLT4160	7	N-PEΔ	Si	u85a		Pd 50mW;BVCEO 50V;BVECO 5.0V, IL 3.0mA max;ID 10nA max;tr 1.5us typ;tf 1.5us typ.
51	CLT4170	7	N-PEΔ	Si	u85a		Pd 50mW;BVCEO 40V;BVECO 5.0V, IL 5.0mA max;ID 10nA max;tr 1.5us typ;tf 1.5us typ.
52	EIP	7	P	Ge			Idk-10uA; Ilt-10mA; Sens.-300uA/1m.
53	EP120	7	P§	Si	R110c	DB	Pt 250mW;Sin 400nA/mW/cm sq;IG(DARK) 30pA max;Igss(DARK) 500pA max;Vp 10V max.
54	EP121	7	P§	Si	R110c	DB	Pt 250mW;Sin 400nA/mW/cm sq;IG(DARK) 30pA max;Igss(DARK) 500pA max;Vp 1.5V max.
55	EP122	7	P§	Si	R110c	DB	Pt 250mW;Sin 400nA/mW/cm sq;IG(DARK) 30pA max;Igss(DARK) 500pA max;Vp 4.0V max.
56	EP123	7	P§	Si	R110c	DB	Pt 250mW;Sin 400nA/mW/cm sq;IG(DARK) 30pA max;Igss(DARK) 500pA max;Vp 10V max.
57#	ES3501	7	P-A	Ge	R71		Pc-36mW at 45 deg. C;BVCBO-10V; Ic-10mA max;Photosens-20uA/fc.
58#	ES3511	7	P-A	Ge	R88		Pc-50mW; BVCBO-25V; IC-20mA max; Photosens-1.0uA/Lux
59	FF400*	7	N-EΔ	Si	TO72	DH	IG(Light)-15nA/FC min;ID(Light)-30uA/FC typ;tr-30ns;tf-50ns.
60	FPM100	7	N-PL	Si	X52		Pt-75mW max;ID-.10uA max;IL-.80mA max;BVCEO-5.0V min.
61	FPN100	7	N-PL	Si			Phototrans;Pd-75mW;ID-.10uA max;IL1-.80mA min.
62	FPO100	7	N-PL	Si	X52a		Pt-75mW max;ID-.10uA max;IL-.80mA. max.
63	FPT100	7	N-PLΔ		R124	A	Pt-100mWmax;ID-101nAmax;IC-25mA;tr-3.0usec.
64	FSP5	7	N-PL	Si	X8		Pc-.50W max; BVCBO-100V; Photo-Sens-1.0ua/fc min.
65	GS100	7	N-PLΔ	Si	u54		Pt-50mW;IL-1.0mA min;ID-1.0nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
66	GS102	7	N-PLΔ	Si	u54		Pt-50mW;IL-.10mA min;ID-1.0nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
67	GS170	7	N-PLΔ	Si	u54		Pt-50mW;IL-1.0mA min;ID-20nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
68	GS172	7	N-PLΔ	Si	u54		Pt-50mW;IL-.10mA min;ID-20nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
69	GS300	7	N-PLΔ	Si	X90a		Pt-50mW;IL-1.0mA min;ID-1.0nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
70	GS302	7	N-PLΔ	Si	X90a		Pt-50mW;IL-.10mA min;ID-1.0nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
71	GS370	7	N-PLΔ	Si	X90a		Pt-50mW;IL-1.0mA min;ID-20nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
72	GS372	7	N-PLΔ	Si	X90a		Pt-50mW;IL-.10mA min;ID-20nA;VCE (SAT)-.30V;tr-7.0us max;tf-40us max.
73	GS600L	7	N-PLΔ	Si	X29		Pt-.25W; IL-30mA; ID-10nA; VCE-10V max; Sens-75uA/fc
74	GS601	7	N-PLΔ	Si	X29		Pt-.25W; IL-20mA; ID-20nA; VCE-5.0V max; Sens-50uA/fc
75	GS611	7	N-PLΔ	Si	X29		Pt-.25W; IL-3.0mA;ID-(12V)-1.0nA;VCE-12V max;Sens-7.5uA/fc
76	GS614	7	N-PLΔ	Si	X29		Pt-150mW;IL-5.0mA min;ID-1.0nA;VCE (SAT)-.30V;tr-1.5us max;tf-2.0us max.
77	GS660	7	N-PLΔ	Si	X29		Pt-.25W; IL-40mA; ID-10nA; VCE-5.0V max; Sens-100uA/fc
78	HPA4202	7	N	Si	X40		BVCEO-25V; fae-120Kc; Cob-9.0pf; hFE-400 typ.
79	ME510	7	N-PE	Si	TO18		BVCBO-10V; Photosens-2.0ua/fc min. at VCE-5.0V, IB-0.0
80	MRD100*	7	NANT△	Si	u43	B	Pd-50mW;BVCBO-80V;BVCEO-40V;ICEO(dark)-100nAmax;Sens.Rad.CEO-100nA/mW/sq.cm.
81	MRD200	7	N-AN	Si	X83		Pt-.05W;ICEO(dark)-25nA;BVCEO-50V;Sens.-2.0uA/lum/ft.sq. min.
82	MRD210	7	N	Si	X83a		BVCEO-50V;ICEO-25nA at 25deg C;SICE-.4uA/lum/ft-2min;LS-.8um typ.
83	MRD250	7	N	Si	X83a		BVCEO-50V;ICEO-25nA at 25deg C;SICE-.8uA/lum/ft-2min;LS-.8um typ.
84	OCP71	7	P	Ge	R9		Pt-50mW; BVCEO-25V; IC-20mA; Sens-.30A/lm
85#	OS13	7	P	Ge	X1		Pc-15mW max; BVCBO-30; Ic-2mA max.
86#	OS15	7	N	Si	X1		Pc-30mW max;BVCEO-30Vmax;Ic-200uA max; Photo-Sens-1uA/500 Lumen.
87#	OS16	7	N	Si	X1		Pc-30mW max;BVCEO-30Vmax;Ic-200uA max; Photo-Sens-4uA/500 Lumen.
88#	OS17	7	N	Si	X1		Pc-30mW max;BVCEO-30Vmax;Ic-200uA max; Photo-Sens-7uA/500 Lumen.
89	PD3L	7		Ge			Pc-.10W max; BVCBO-50V; IC-5.0ma max.
90	PD6	7		Ge			Pc-20mW max; BVCBO-50V; IC-5.0ma max.
91	PFN3066*	7	N-E	Si	TO18	DB	IGSS(light) 3.0nA/fc;ID(light) 2.0uA/fc.
92	PFN3069*	7	N-E	Si	TO18	DB	IGSS(light) 8.0nA/fc;ID(light) 14uA/fc.
93	PFN3458*	7	N-E	Si	TO18	DB	IGSS(light) 10nA/fc;ID(light) 35uA/fc.
94#	PH244N*	7	N-PEΔ	Si	X8f	DBØ	Pd 300mW; IGSS(light)15nA/FC;ID(light)100uA/FC.
95	TIL58	7	NPLΔ	Si	X69a		Pd-50mW;ID-25nAmax;IL-1.0mAmin;tr-2.0usec;BVceo-50V;BVeco-8.0V;tf-15usec.
96	TIL78	7	N	Si			Pt 50mW;IL 1.0mA min;ID 25nA max;tr 1.5us typ;tf 15us typ;BVCEO 50V min;BVECO 7.0Vmin
97	3N25	8	PGD	Ge			Pc-25mW max; fab-200Mc; Ic-2.0mA max.
98	3N35A	8	N	Si	TO12		Pd-.125W;Rsat-300 ohms;ries-20 ohms min;Coep-3.0pf
99	3N56	8	N-Δ	Si	TO5		Pc-.15W max; BVCBO-18V; IC-30ma max.
100	3N57	8	N-Δ	Si	TO5		Pc-.15W max; BVCBO-18V; IC-30ma max.
101#	3S001	8	N-D	Si			Pc-125mW;BVCBO-30V;Ic-10mA; Gain 18 db ICBO-.2uA
102#	3S002	8	N-GD	Si	TO12		Pc-.125W max; fab-100Mc; BVCBO-30V; Ic-10mA max.
103#	3S003	8	N-D	Si			Pc-125mW;BVCBO-30V;Ic-10mA; Gain 20 db ICBO-.2uA
104#	3S004	8	N-GD S	i	si TO1	2	Pc-.125W max; fab-150Mc; BVCBO-30V; Ic-10mA max.
105	GTA3	8	P	Ge			Pc-2.5mW; fab-200Mc; BVCBO-15V; Ic-2.0mA max.
106	JAN2N489	9	P-N	Si	R33		Pc-.45W max;VE-60V max;ISR-.62 max;RBBO-6.8k Ω max.
107	JAN2N490	9	P-N	Si	R33		Pc-.45W max;VE-60V max;ISR-.62 max;RBBO-6.8k Ω max.
108	JAN2N491	9	P-N	Si	R33		Pc-.45W max;VE-60V max;ISR-.68 max;RBBO-6.8k Ω max.
109	JAN2N492	9	P-N	Si	R33		Pc-.45W max;VE-60V max;ISR-.68 max;RBBO-6.8k Ω max.
110	JAN2N493	9	P-N	Si	R33		Pc-.45W max;VE-60V max;ISR-.75 max;RBBO-6.8k Ω max.

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

13. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	JAN2N494	9	P-N	Si	R33		Pc-.45W max;VE-60V max;ISR-.75 max;RBBO-6.8k Ω max.
2	2N2213	9	P	Si			Pc-.45W; Rbb-9.1 ohms max; VB2B1-40V; VB2E-60V.
3	2N2307	9	P	Si	R86		Pc-250mW;Rbb-9.1kohms max;Ip-2.0A max.
4	2N3406	9	P	Si	R33		Pc-.45W;VB2E-60V max;VB2B1-70V max;VEB1(SAT)-5.0V max;IV-8mA max.
5	2N3482	9	P	Si	R33	GF	Pc.40W;RBBO 6.8kohms max; n .62max;IV 4.0mA min; IP2.0uA max.
6	2N3679	9	P	Si	L7a		Pt-250mW;ISR-.80 max;RBBO-9.1Kohms max;Iv-4.2mA min;VOB1-4.0V min.
7#	2SH22	9	N	Si	TO18	CB	Pt 200mW;n .85 max;RBB 4.0k0hms min IV 4.0mA min;IP 4.0uA min.
8	5B24	9	P	Si	TO5		P-450mW; ISR-.47 min; Ip-25uA max;Iv-8.0mA min;IB2 Mod.-6.8-30
9	5B25	9	P	Si	TO5		P-450mW; ISR-.47 min; Ip-25uA max; Iv-8.0mA min;IB2 Mod.-6.8-30
10	5C28	9	NP	Si	TO18		Pc-.30W; ISR-.75 max; Rb1b2-12K ohms; IV-8.0mA min; Ip-20mA max.
11	5C29	9	NP	Si	TO18		Pc-.30W; ISR-.86 max; Rb1b2-12K ohms; IV-.20mA min; Ip-12mA max.
12	5C30	9	NP	Si	TO18		Pc-.30W; ISR-.75 max; Rb1b2-12K ohms; IV-.20mA min; Ip-12mA max.
13	5E29	9			TO18		Ip-25uA max;Iv-4.0mA min;IEO-12uA;N-.68 min., .82 max.
14	5G514	9			TO18		Ip-25uA max;Iv-8.0mA min;IEO-12uA;N-.47 min., .62 max.
15	5G515	9			TO18		Ip-25uA max;Iv-8.0mA min;IEO-12uA;N-.47 min., .62 max.
16	5G516	9			TO18		Ip-6.0uA max;Iv-8.0mA min;IEO-.20uA;N-.47 min., .62 max.
17#	70T2	9		Si	RO141C	A	Ip-25uA max;IV-25ma max;N-.47 to .85;RBBO-4.0 to 12kohms.
18	551B	9	N	Si	TO18		Pc-.45W;ISR-.62 max;Rb1b2-6.8K ohms;Iv-.20ma min;Ip-2.0ma max.
19	BB3	9		Si	TO5		Pt-450mW;RBB-10kΩ max;VBB-35V max;n-62 max.
20	BB4A	9		Si	TO5		Pt-450mW;RBB-10kΩ max;VBB-35V max;n-78 max.
21	BB4B	9		Si	TO5		Pt-450mW;RBB-10kΩ max;VBB-35V max;n-78 max.
22	BB5	9		Si	TO5		Pt-450mW;RBB-12kΩ max;VBB-60V max;n-75 max.
23	BB5A	9		Si	TO5		Pt-450mW;RBB-12kΩ max;VBB-60V max;n-62 max.
24	BB5B	9		Si	TO5		Pt-450mW;RBB-12kΩ max;VBB-60V max;n-68 max.
25	BB5C	9		Si	TO5		Pt-450mW;RBB-12kΩ max;VBB-60V max;n-75 max.
26#	BSS58A	9	†	Si	u100	CF	Programmable;Ip 150nA max at RG 1.0MΩ;Iv 25uA min at RG 1.0MΩ.
27#	BSS58B	9	†	Si	u100	CF	Programmable;Ip 2.0uA max at RG 1.0MΩ;Iv 50uA min at RG 1.0MΩ.
28#	BSV56A	9	P	Si	R33b	CC	RBB 4.7kΩ min;Ip 6.0uA max;Iv 4.0mA min;Pd 400mW;Intrinsic standoff ratio .56 to .75
29#	BSV56B	9	P	Si	R33b	CC	RBB 4.7kΩ min;Ip 6.0uA max;Iv 4.0mA min;Pd 400mW;Intrinsic standoff ratio .68 to .82
30#	BSV56C	9	P	Si	R33b	CC	RBB 4.0kΩ min;Ip 25uA max;Iv 4.0mA min;Pd 400mW;Intrinsic standoff ratio .47 to .82
31#	BSV57A	9	P†	Si	u100	CB	RBB 4.7kΩ min;Ip 6.0uA max;Iv 4.0mA min;Pd 300mW;Intrinsic standoff ratio .56 to .75
32#	BSV57C	9	P†	Si	u100	CB	RBB 4.0kΩ min;Ip 25uA max;Iv 4.0mA min;Pd 300mW;Intrinsic standoff ratio .47 to .82
33#	BSV58A	9	P	Si	R159	CF	Programmable;Ip .15uA max at RG 1.0MΩ;Iv 25uA min at RG 1.0MΩ.
34#	BSV58B	9	P	Si	R159	CF	Programmable;Ip 2.0uA max at RG 1.0MΩ;Iv 50uA min at RG 1.0MΩ.
35	D5E29	9	N	Si	R33a	CA	Pt-.30W;RBB-9.1kΩ max;IV-25mA max;n-.82 max;Ip-25uA max.
36	D5E35	9	N	Si	R33a	CA	Pt-.30W;RBB-9.1kΩ max;IV-10mA typ;n-.82 max.
37	D5E36	9	N	Si	R33a	CA	Pt-.30W;RBB-9.1kΩ max;IV-10mA typ;n-.82 max.
38	D13K1	9	P	Si	TO18		Programmable;Pt 250mW;Iv 50uA max;Ip 2.0uA max;Vf 1.5V max.
39	D13K2	9	P	Si	TO18		Programmable;Pt 250mW;Iv 25uA max;Ip 150nA max;Vf 1.5V max.
40	D13K3	9	P	Si	TO18		Programmable;Pt 250mW;Iv 50uA max;Ip 300nA max;Vf 1.5V max.
41#	ST50Ø	9	P	Si	TO72	CA	Pt-500mW;VB2E-30V;VBB-20V;Iv-50mA max;fab-200kHz.
42#	TAM93	9	NPN		TO5		Dual 2N930;10% hFE match;5.0mV VBE match;hFE at 10uA-50 min.
43	TIS01	9	P	Si	X20a		Pc-.30W;ISR-.75 max;RBB-9.1Kohms max;Ip-5.0uA max.
44	TIS02	9	P	Si	X20a		Pc-.30W;ISR-.82 max;RBB-9.1Kohms max;Ip-2.0uA max.
45	2N2183	10	P	Si	TO1		Pc-150mW;VCBO-15V max;VCEO-10V max;VEBO-15V max;Voff-3mV max.
46	2N2184	10	P	Si	TO1		Matched Pair of 2N2183.
47	2N2356*	10	N-*	Si	L6		Voff-80uVmax;IEBO1or2-10nAmax;rs-40Ωmax;ΔIOFF-5nAmax.
48	2N2356A*	10	N	Si	L6		Voff-50uV max; Ioff-2nA max; BVECO-7.0V. max.
49	2N2871*	10	P	Si	L17j		Voff-1.5mV max;Voff(1-2)-200uV max;hFE-15 min.
50	2N2872*	10	P	Si	L17j		Voff-1.5mV max;Voff(1-2)-200uV max;hFE-15 min.
51	2N3082*	10	N-PE	Si	L1		ΔVoff-75uV max;rS-40 ohms max;VCEO-20V max;Δloff-5.0mA max.
52	2N3083*	10	N-PE	Si	L1		ΔVoff-75uV max;rS-40 ohms max;VCEO-20V max;Δloff-2.0mA max.
53	2N3586*	10	PΔ*	Si	X37		Pt-.25W max;ΔVoff-500uV max;rs(on)-75 ohm max.
54	3N112*	10	P Δ	Si	L38		Pt-.2W;VE1E2O-30V;IE1E2O-1nA;re1e2-100 ohms;(Vo)1,2-50uV.
55	3N113*	10	P Δ	Si	L38		Pt-.2W;VE1E2O-50V;IE1E2O-1nA;re1e2-100 ohms;(Vo)1,2-50uV.
56	3N127*	10	N	Si	TO72	Ø	IB-10mA;IE-10mA;Ceb-2.0pf;Vo-10uV.
57	4JD12C101	10	N-PE	Si	L1a		BVCBO-25V;Pt-.50W;Vo(1-2)-50uV;ICBO-10nA;ft-50Mc;Io(1-2)-2.0nA
58	4JD12C102	10	N-PE	Si	L1a		BVCBO-25V;Pt-.50W;Vo(1-2)-50uV;ICBO-10nA;ft-50Mc;Io(1-2)-2.0nA
59	4JD12X013	10	N-PL	Si	L11		4-2N2356 transistors;Vo(1-2)-50uV;ICBO-10nA;BVEEO-20V.
60	4JD12X070	10	N-PL	Si	L11		4-2N2356A transistors;Vo(1-2)-50uV;ICBO-10nA;BVEEO-20V.
61	5	10	N-DM	Si	L6		Matched pair; ICBO-10uA; BVCER-20V; BVEBO-5.0V.
62	6	10	N-DM	Si	X32		Matched pair; ICBO-10uA; BVCER-20V; BVEBO-5.0V.
63	7	10	N-PE	Si	X33		Matched pair; ICEO-2.0nA; BVCEO-45V; ft-30Mc.
64	10	10	N-DM	Si	OV13		Matched pair; ICEO-2.0nA; BVCEO-45V; ft-30Mc.
65	12C101	10	N-PL	Si	L1a		Pt-500mW; VCEO-20V; ΔVoff-50uV max; Δloff-2mA max.
66	12C102	10	N-PL	Si	L1a		Pt-500mW; VCEO-20V; ΔVoff-100uV max; Δloff-2.0mA max.
67	20	10	P-A	Si	OV13		Matched pair; ICBO-2.0uA; BVCEO-20V; BVEBO-12V.
68	40460*	10	N-MOS	Si	TO72	DR§	Voff-0.0V;IDS(off)-.50nA at VDS-1.0V;VGS-10V;Pt-150mW.
69	A569	10	N	Si	TO18	A	Matched Pair of 2N2569; Voff - ±50uV.
70	A570	10	N	Si	TO18	A	Matched Pair of 2N2570; Voff - ±100uV.
71#	BSV22*	10	N-MOS*	Si	TO72	DW	Pt 200mW;Voff 30uV max;Roff 100MΩ;Cob 4.0pf max.
72#	BSX31	10	N-PLΔ	Si	RO38a		Pt-.15W max;ΔVoff-.30mV max;IE1IE2-.30nA max;Rd-200 ohms max.
73#	BSX34	10	PDPL*	Si	L18a		Pt-.60W max;Rd-5000 ohms;ID-200mA;Ro-270 ohms;VGST-6V max.
74	C7076*	10	N-PEΔ	Si	TO18	AØ	Voff 2.0mVmax;rs 20Ωmax; BVECO 15Vmin; IEBO 2.0nA max.
75	D12X013	10	N-PE	Si	L11		Pt-500mW each;VCEO-20V;ΔVoff-100uV max;Δloff-10uA max.
76	D12X070	10	N-PE	Si	L11		Pt-500mW each;VCEO-20V;ΔVoff-50uV max;Δloff-10mA max.
77	MA3227	10	P	Si	L2		Matched; Voff-.20mV; BVCBO,BVEBO,BVCEO-35V
78	MA7805	10	P-A	Si	TO5		Vo-3.0mVmax; ΔVo-100uV max; Rsat-25 ohms max; Tr-15 usec max.
79	MA7811	10	P-A	Si	TO5		Vo-1.5mVmax; ΔVoff-100uV max; Rsat-30 ohms max; Tr-15 usec max.
80	MA7816	10	P-A	Si	TO5		Vo-1.5mVmax; ΔVoff-100uV max; Rsat-25 ohms max; Tr-15 usec max.
81	MA7817	10	P-A	Si	TO5		Vo-1.5mVmax; ΔVoff-50uV max; Rsat-25 ohms max; Tr-15 usec max.
82	ME209*	10	NPE	Si	TO18	A	Voff-250uV max; Ioff-2.0n Amps max; Rsat-15ohms.
83	ME214*	10	NPE	Si	TO18	A	Voff-500uV max; Ioff-2.0n Amps max; Rsat-15ohms.
84	ME509	10	N-PE	Si	L2		BVEBO-5.0V; Voff-.50uV at IB-150ua, IE-0.0
85	NS3000	10	N	Si	RO38a		Voff-200uV max; Rd-50 ohms max; BVEEO-10V; IEEO-.50na
86	NS3001	10	N	Si	RO38a		Voff-50uV max; Rd-50 ohms max; BVEEO-10V; IEEO-.50na
87	NS3039	10	N	Si	L15aØ		Max.(ΔVo/T-.30uV/deg.C;Rd-50 ohms;IE1E2O-2.0nA;Vo-200uV.)
88	NS3040	10	N	Si	L15aØ		Max.(ΔVo/T-.30uV/deg.C;Rd-50 ohms;IE1E2O-2.0nA;Vo-100uV.)
89	NS3041	10	N	Si	L15aØ		Max.(ΔVo/T-.30uV/deg.C;Rd-50 ohms;IE1E2O-2.0nA;Vo-50uV.)
90	NS3050	10	N	Si	RO38a		Voff-100uV max; Rd-50 ohms max; BVEEO-10V; IEEO-.50na
91	NS3051	10	N	Si	RO38a		Voff-100uV max; Rd-100 ohms max; BVEEO-10V; IEEO-.50na
92	NS3052	10	N	Si	RO38a		Voff-200uV max; Rd-100 ohms max; BVEEO-10V; IEEO-.50na
93	NS3053	10	N	Si	RO38a		Voff-200uV max; Rd-100 ohms max; BVEEO-6.0V; IEEO-.50na
94	NS3108	10	N	Si	L15a		Pd-100mW max; IE ° IB-10mA max; BVEBO-30V min.
95	NS3109	10	N	Si	L15a		Pd-100mW max; IE ° IB-10mA max; BVEBO-30V min.
96	NS3110	10	N	Si	L15a		Pd-100mW max; IE ° IB-10mA max; BVEBO-30V min.
97	NS3300	10	N-PE	Si	TO18	AØ	VCEoff-6.0mV max;Inverse hFE-3.0 min;VECoff-1.0mV max.
98	NS6208	10	N	Si			Voff-100uV;rd-50Ω max;BVEECS-12V;IEECS-5.0nA max.
99	NS6209	10	N	Si			Voff-50uV;rd-50Ω max;BVEECS-12V;IEECS-5.0nA max.
100	NS6210	10	N	Si	X16		BVCBO-30Vmin;BVCEO-15Vmin;hFE(INV)-2.0min;Voff-1.0mVmax.
101	NS6211	10	N	Si	X16		BVCBO-30Vmin;BVCEO-25Vmin;hFE(INV)-3.0min;Voff-2.0mVmax.
102	NS7630	10	N	Si	L38a		Pt-200mW;BVEIE2O-15Vmin;IEIE2CS-2nAmax;Voff-200uV.
103	NS8000	10		Si	TO77		Pt-500mW; Voff-100uV; BVCBO-12V; Freq.Range 50-1500Kc.
104	NS8003	10		Si	TO77		Pt-500mW; Voff-100uV; BVCBO-12V; Freq.Range 0-50Kc.
105#	OC740	10	P	Si	RO66		Available as matched pair or quad-50uV max;Voff 2mV max.
106#	OC742	10	P	Si	RO66		Available as matched pair or quad-50uV max; Voff 5mV max.
107	SA100	10	N-PL	Si	L2		Pc-.50W; BVCBO-60V max; BVCEO-30Vmax;hFE1/hFE2-.90;VBE1-VBE2-.02V
108#	SAC40*	10	P-A	Si	TO1		VO-2mV max;IO-.05uA max;VCE-15V;hFE-2.5 min at 3V;1mA;4Mc/s
109#	SAC40A*	10	P-A	Si	TO1		VO-2mV max;IO-.05uA max;VCE-15V;hFE-1.5 min at 3V;1mA;4Mc/s
110#	SAC40B*	10	P-A	Si	TO1		VO-2mV max;IO-.05uA max;VCE-15V;hFE-2.5 min at 3V;1mA;4Mc/s

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

13. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1#	SAC42*	10	P-A	Si	TO1		VO-5mV max;IO-.05uA max;VCE-25V;hFE-2.5 min at 3V;1mA;4Mc/s
2#	SAC42A*	10	P-A	Si	TO1		VO-5mV max;IO-.05uA max;VCE-25V;hFE-2.5 min at 3V;1mA;4Mc/s
3#	SAC42B*	10	P-A	Si	TO1		VO-5mV max;IO-.05uA max;VCE-25V;hFE-2.5 min at 3V;1mA;4Mc/s
4#	SAC44*	10	P-A	Si	TO1		VO-10mV;IO-.01uA max;VCB-5V;hFE-1 min at 3V;1mA;4Mc/s
5#	SPC40*	10	N-PE	Si	TO18		VO-2mV max;VCBO-25V max;VEBO-6Vmax
6#	SPC42*	10	N-PE	Si	TO18		VO-5mV max;VCBO-25V max;VEBO-6Vmax
7#	SPC50*	10	N-PE	Si	R38		ΔVO-50uV max; rd-125 ohms typ; Double emitter device
8#	SPC51*	10	N-PE	Si	R38		ΔVO-100uV max; rd-125 ohms typ; Double emitter device
9#	SPC52*	10	N-PE	Si	R38		ΔVO-200uV max; rd-125 ohms typ; Double emitter device
10#	SSA43A*	10	P-A	Si	TO1		Symmetrical hFE-10 min at VE2E1-3V; IE-1mA
11#	SSA46*	10	P-A	Si	TO1		Symmetrical hFE-7 min at VE2E1 orVE1E2-3V; IE-1mA
12#	SSA46A	10	P-A	Si	TO1		Symmetrical VE1E2(SAT)-500mV max at IC-5mA;IB-1mA
13#	SSA48*	10	P-A	Si	TO1		Symmetrical hFE- 7 min atVE2E1 or VE1E2-3V; IE-1mA
14	ST5610	10	N-PE	Si	TO72	GDØ	BVCBO-25V;BVEEO-18V;Voff-50uV;rs-50Ω;Ton and Toff-500ns.
15	ST5611	10	N-PE	Si	TO72	GDØ	BVCBO-25V;BVEEO-18V;Voff-100uV max;rs-100Ω;Ton and Toff-500ns.
16	ST5612	10	N-PE	Si	TO72	GDØ	BVCBO-25V;BVEEO-12V;Voff-50uV max;rs-50Ω;Ton and Toff-500ns.
17	ST5613	10	N-PE	Si	TO72	GDØ	BVCBO-25V;BVEEO-12V;Voff-100uV max;rs-100Ω;Ton and Toff-500ns.
18	ST5614	10	N-PE	Si	TO72	GDØ	BVCBO-15V;BVEEO-8.0V;Voff-150uV max;rs-150Ω;Ton and Toff-500ns.
19	ST5641	10	N-PE	Si	TO18		Voff-.50mV max;rd-25 ohms max;VECO-15V min.
20	ST61000*	10	P-PE	Si	TO46	AØ	hFE(inverse)-75 min at VCE-6.0V;VEC(off)-.80mV;rec(on)-3.0ohms.
21	ST70000*	10	N-PE*	Si	L62		Voff/IB-10uV max;ΔVoff/TA-20uV max;Δ/Voff1/2/TA-10uV max.
22	ST70001*	10	N-PE*	Si	L62		Voff/IB-25uV max;ΔVoff/TA-50uV max;Δ/Voff1/2/TA-25uV max.
23	TW135	10	P-PE	Si	TO18	A	Voff-1.0mV max at IB-1.0mA;rS-20 ohms;Cib-6.0pf max.
24	U89*	10	P	Si	TO18 D	U	Cdg1-.90pf max; Cdg2-1.8pf typical at Vds-5V,Vg1s-0V,V-Vg2s-1V.
25	UD1001	10	P-PE	Si	TO90		Dual Emit Pr; Pt-200mW(both sides); BVE1E2O-30V; BVEBO-30.
26#	UPA16	10	N-PE	Si	L5		Pc-.6W max;hFE1/hFE2-.80 min;hFE-20 min at .20mA;ΔVoff-100uV max.
27	2N626	11	N	Ge-Si			Pc-10W max; BVCBO-30V; Ic-3.0A max;hFE-18000 min/VCE-5.0V;Ic1.0A.
28	2N676	11	P	Ge-Si			Pc-10W max; BVCBO-30V; Ic-3.0A max;hFE-15000/VCE-5.0V; Ic1.0A.
29	2N3230	11	NΔ	Si	L35		Pd 25W;VCEV 80V;Ic 7A max;hFE 1.0k min at Ic 5A;Ton 350ns max.
30	2N3231	11	NΔ	Si	L35		Pd-25W;VCEV-100V;IC-7A max;hFE-1000 min. at IC-5A;Ton-350ns max.
31#	2OC26	11	P	Ge	MD3		VCBO 40V;VCEO 20V;Ic 3.5A;Pt 12W;hFE 20 min.
32#	2OC30	11	P	Ge	MD17c	CØ	VCBO 32V;VCEO 16V;IC 1.4A;Pt 40W;hFE 32.
33	4JD12X009	11	N-PL	Si	L42		Contains 3-2N1613 transistors and a 1N914 diode;Pt-300mW.
34	4JD12X010	11	N-PL	Si	L29a		Contains 2-2N1613 transistors;PT-300mW/Transistor.
35	4JD12X011	11	N-PL	Si	L27		Contains 3-2N1613 type transistors;Darlington input and output.
36	4JD12X012	11	N-PL	Si	L28		4-2N1613 type transistor;Darl.Diff.Amp.;hFE1/2-.80 to 1.25
37	4JD12X014	11	N-PL	Si	L26		Contains 3-2N1613 typ transistors;Darlington input and output.
38	4JD12X132	11	N-PE	Si	L4		Darlington Amp;BVCBO-80V;BVCEO-60V;BVEBO-15V;Pt-.50W.
39	12X006	11	N-PL	Si	L31		Emitter Coupled Logic or/and gate;Pt-100mW;hFE-120;VCEO-15V
40	12X008	11	N-PL	Si	L30		Functional Device and gate;Pt-100mW;hFE-120max;VCEO-15V
41	12X040	11	N-PL	Si			Active Functional Device;VCEO-60V;hFE1/hFE2-1.0;ΔVBE-5.0mV
42	12X058	11	N-PL	Si			Active Functional Device;VCEO-60V;hFE1/hFE2-1.0;ΔVBE-10mV
43	12X059	11	N-PL	Si			Active Functional Device;VCEO-60V;hFE1/hFE2-1.0;ΔVBE-5.0mV
44	22MPG5	11	P	Ge	L5		BVCBO-10V; BVCEO-4.0V; Ic-.50A; fab-40 Mc.
45	22MPS5	11	P	Si	L5		BVCBO-20V; BVCEO-5.0V; Ic-.50A; fab-10 Mc.
46	40675*	11	N-PE	Si	L68		VCEO-35V;VEBO-3.5V;Pt-100W;IC-10A;ICES-30mA max;Cob-250pF max.
47#	A25Q	11	N-PE	Si			PC-600mW; VCBO-30V max; hFE-500 min at 5V;1mA
4ª	A431*	11	N-PE	Si	L29a		hFE(pulsed)-20 min. at IC-100mA;ft(pulsed)-1.0GHz min.
49	ARA46P	11	P	Si			Pc-40W max;BVCBO-40V;IC-3.0A max;hfe-10000 Typ/VCE-40V;IC-3.0A.
50	ASA31	11	N-PL	Si	TO18		2N1613 in isolated TO18 Package; BVCBO-75V.
51	ASA51	11	N-PL	Si	TO5		2N1889 in isolated TO5 Package; BVCBO-100V.
52	ASA1003	11	N-PL	Si	TO18		Pc-.50W max; BVCBO-60V;hFE-5000 min/Ic-10 mA; ICBO-10nA max.
53	ASA1004	11	N-PL	Si	TO18		Pc-.50W max; BVCBO-60V;hFE-20,000 min/Ic-10 mA; ICBO-10nA max.
54#	BFY21	11	N-PL	Si	L2		Pc-.70W max; BVCBO-40V; Ic-200mA; hFE-64; fT-200Mc/s min.
55#	BSX85*	11	PDPLΔØ	Si	TO76		Pt-.60W each;rds(ON)-300 ohms;tr-30nsec;td-20nsec;toff-50ns.
56#	BSX86*	11	PDPLΔØ	Si	TO76		Pt-.60W each;rds(ON)-125 ohms;tr-30nsec;td-20nsec;toff-50ns.
57	CA3018	11	N	Si	L60		BVCEO-15V;BVCBO-20V;hFE-70 at IC-1mA;ft-400MHz.
58	CA3036	11	N	Si	L65		Darlington Array;Pt-300mW;BVCBO-30max;hFE-82typ at IC-1mA.
59	CS2641*	11	N-DPL	Si	L2r		Pt-.30W;hFE-65 min. at IC-1mA;NF-4.0db max;IEBO-10nA at VEB-5.0V.
60	CS2644*	11	N-DPL	Si	L2r		Pt-.30W;hFE-130 min. at IC-1mA;NF-4.0db max;IEBO-10nA at VEB-5.0V.
61	CS29010*	11	N-DPL	Si	L2r		Pt-.30W;hFE-200 max.at IC-.10mA;NF-4.0db max;IEBO-10nA at VEB-5.0V.
62	CS29013*	11	N-DPL	Si	L2r		Pt-.30W;hFE-300 max.at IC-.10mA;NF-4.0db max;IEBO-10nA at VEB-5.0V.
63	D12X010	11	N-PL	Si	L29		Two stage amplifier;VCEO-60V;hFE-40.
64	D12X011	11	N-PL	Si	L27		Three stage amplifier with Darlington input;hFE-40.
65	D12X014	11	N-PL	Si	L26		Three Stage Amplifier with Darlington output;hFE-40.
66	D12X015	11	N-PL	Si	L11		Active Functional Device;VCEO-60V;hFE1/2-1.0;ΔVBE-10mV.
67	D16P3	11	N	Si	L3e		Darlington Amp. hFE-2.0k min;Pt-320mW;Zin-650k;BVCEO-20V.
68	D16P4	11	N	Si	L3e		Darlington Amp; hFE-7.0k-15k typ;Pt-320mW;Zin-650k;BVCEO-20V.
69	DD15K*	11	P-MOS		TO12	DM	MOS FET has intergrated over Voltage clamp diode;Pt 1.8W(Derate at 14.4mW/°C.
70	DM01B*	11	P-MOS		L18b		Pd 225mW(each side);yfs(1-2) 32umho;Ciss(1-2) 20fF;VT(1-2) 20mV.
71	DM02B*	11	P-MOS		L18b		Pd 225mW(each side);yfs(1-2) 32umho;Ciss(1-2) 20fF;VT(1-2) 75mV.
72	DM03B*	11	P-MOS		L18b		Pd 225mW(each side);yfs(1-2) 32umho;Ciss(1-2) 20fF;VT(1-2) 150mV.
73	DM05A*	11	P-MOS		L53		Pd 225mW(each side);yfs(1-2) 100umho;Ciss(1-2) 20fF;VT(1-2) 50mV.
74	DM06A*	11	P-MOS		L54		Pd 225mW(each side);yfs(1-2) 100umho;Ciss(1-2) 20fF;VT(1-2) 50mV.
75	EM500	11	N	Ge-Si			Pc-10W max; BVCBO-30V; Ic-3.0A max;hFE-26000 min/VCB-5.0V;Ic1.0A.
76	EM600	11	P	Ge-Si			Pc-10W max; BVCBO-30V; Ic-3.0A max;hFE-26000 min/VCB-5.0V;Ic1.0A.
77#	FI0049*	11	PDPLØ	Si	L18a		Pt-1.7W max;IDSS-1.0nA max;BVDSS-30V max;BVGSS-25V max.
78	FSP22	11	N-PL	Si	L3		Pc-.50W max;BVCBO-100V;hFE-1600 min/Ic-10mA;ICBO-.005ua;BVCEO-60V
79	FSP598	11		Si	TO18		BVCBO-25V; BVEBO-4.0V; ICBO-.60uA; hFE-20 min.
80	FT4017	11	P-DPE	Si	L17e		BVCBO-80V;BVCEO-80V;IC-200mA max;hFE-100 min. at 10uA, 5.0V.
81	FT4018	11	P-DPE	Si	L17e		BVCBO-60V;BVCEO-60V;IC-200mA max;hFE-100 min. at 10uA, 5.0V.
82	FT4019	11	P-DPE	Si	L17e		BVCBO-45V;BVCEO-45V;IC-200mA max;hFE-250 min. at 10uA, 5.0V.
83	L14B	11	N-PLt	Si	TO98	B	Photo-Darlington Amp;Pt-150mW;IL-100mA;VCEO-12V;VCBO-18V.
84	MA3228	11	P	Si	L2		Diff. Ampl. Matched; ΔhFE-20%; ΔVBE-10mV; BVCEO-90V
85	MA3229	11	P	Si	L2		Diff. Ampl. Matched; ΔhFE-20%; ΔVBE-15mV; BVCEO-60V
86	MA3230	11	P	Si	L2		Diff. Ampl. Matched; ΔhFE-40%; ΔVBE-20mV; BVCEO-35V
87	MA3231	11	P	Si	L2		Darlington Ampl.; hFE:100-1000; BVCEO-90V.
88	MA3232	11	P	Si	L2		Darlington Ampl.;hFE:100-1000; BVCEO-35V.
89	MA3233	11	P	Si	L2		Darlington Ampl.;hFE:1000-5000; BVCEO-90V.
90	MA3234	11	P	Si	L2		Darlington Ampl.;hFE:1000-5000; BVCEO-35V.
91	MD3133*	11	P-AN	Si	L17c		Pd-600mW;ton-75ns max;toff-150ns max;hFE-25 min at 1.0mA;10V.
92	MD3133F*	11	P-AN	Si	TO89		Pd-350mW;ton-75ns max;toff-150ns max;hFE-25 min at 1.0mA;10V.
93	MD3134*	11	P-AN	Si	L17c		Pd-600mW;ton-75ns max;toff-150ns max;hFE-50 min at 1.0mA;10V.
94	MD3134F*	11	P-AN	Si	TO89		Pd-350mW;ton-75ns max;toff-150ns max;hFE-50 min at 1.0mA;10V.
95	MHM1001	11	N-PL	Si	TO5	AØ	Pc-1.34W; BVCBO-60V; BVCEO-40V; hFE-3000 min. at IC-100mA
96	MHM1101	11	N-PL	Si	TO18	AØ	Pc-1.0W; BVCBO-60V; BVCEO-40V; hFE-3000 min. at IC-100mA
97	MHM1201	11	N-PL	Si	TO47		Pt-260mW; VCBO-60V min; VCEO-40V min; VEBO-12V min; TJ-125deg.C
98	MHM2001	11	N-PL	Si	R89c	GG	Pt-2.0W at 100°C;BVCBO-120V;IC-3.0A;hFE-1.0k min.
99	MHM2011	11	N-PL	Si	R89a	GG	Pt-2.0W max;BVCBO-60V min;BVCEO-40V min;BVEBO-15V min;IC-3.0A max.
100	MHM2012	11	N-PL	Si	R89a	GG	Pt-2.0W max;BVCBO-80V min;BVCEO-60V min;BVEBO-15V min;IC-3.0A max.
101	MHM2013	11	N-PL	Si	R89a	GG	Pt-2.0W max;BVCBO-100V min;BVCEO-80V min;BVEBO-15V min;IC-3.0A max.
102	MHM2014	11	N-PL	Si	R89a	GG	Pt-2.0W max;BVCBO-60V min;BVCEO-40V min;BVEBO-15V min;IC-3.0A max.
103	MHM2015	11	N-PL	Si	R89a	GG	Pt-2.0W max;BVCBO-80V min;BVCEO-60V min;BVEBO-15V min;IC-3.0A max.
104	MHM2016	11	N-PL	Si	R89a	GG	Pt-2.0W max;BVCBO-100V min;BVCEO-80V min;BVEBO-15V min;IC-3.0A max.
105	MHM2017	11	N-PL	Si	R89a	GG	Pt-2.0W max;BVCBO-60V min;BVCEO-40V min;BVEBO-15V min;IC-3.0A max.
106	MHM2101	11	N-PL	Si	MT42a		Pt-12.5W at 100 deg.C;BVCBO-120V;IC-3.0A;hFE-1000 min.
107	MHM2111	11	N-PL	Si	MT42		Pt-12.5W max;BVCBO-60V min;BVCEO-40V min;BVEBO-15V min;IC-3A max.
108	MHM2112	11	N-PL	Si	MT42		Pt-12.5W max;BVCBO-80V min;BVCEO-60V min;BVEBO-15V min;IC-3A max.
109	MHM2113	11	N-PL	Si	MT42		Pt-12.5W max;BVCBO-100V min;BVCEO-80V min;BVEBO-15V min;IC-3A max.
110	MHM2114	11	N-PL	Si	MT42		Pt-12.5W max;BVCBO-60V min;BVCEO-40V min;BVEBO-15V min;IC-3A max.

13. MISCELLANEOUS TRANSISTORS

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1	MHM2115	11	N-PL	Si	MT42		Pt-12.5W max;BVCBO-80V min;BVCEO-60V min;BVEBO-15V min;IC-3A max.
2	MHM2116	11	N-PL	Si	MT42		Pt-12.5W max;BVCBO-100V min;BVCEO-80V min;BVEBO-15V min;IC-3A max.
3	MHM2117	11	N-PL	Si	MT42		Pt-12.5W max,BVCBO-60V min;BVCEO-40V min;BVEBO-15V min;IC-3A max.
4	MHM2201	11	N-PL	Si	MT53	GH	Pt-12.5W at 100°C;BVCBO-120V;IC-3.0A;hFE-1000 min.
5	MHM2211	11	N-PL	Si	MT53	GH	Pt-12.5Wmax;BVCBO-60V;BVCEO-40Vmin;BVEBO-15Vmin.
6	MHM2212	11	N-PL	Si	MT53	GH	Pt-12.5Wmax;BVCBO-80V;BVCEO-60Vmin;BVEBO-15Vmin.
7	MHM2213	11	N-PL	Si	MT53	GH	Pt-12.5Wmax;BVCBO-100V;BVCEO-80Vmin;BVEBO-15Vmin.
8	MHM2214	11	N-PL	Si	MT53	GH	Pt-12.5Wmax;BVCBO-60V;BVCEO-40Vmin;BVEBO-15Vmin.
9	MHM2215	11	N-PL	Si	MT53	GH	Pt-12.5Wmax;BVCBO-80V;BVCEO-60Vmin;BVEBO-15Vmin.
10	MHM2216	11	N-PL	Si	MT53	GH	Pt-12.5Wmax;BVCBO-100V;BVCEO-80Vmin;BVEBO-15Vmin.
11	MHM2217	11	N-PL	Si	MT53	GH	Pt-12.5Wmax;BVCBO-60V;BVCEO-40Vmin;BVEBO-15Vmin.
12#	ML101A	11	P-MOS	Si	L25		Single device;Rd(on) 850Ω max;VGS(th) 6.0V max;ID 50mA max.
13#	ML101B	11	P-MOS	Si	L25		Single device;Rd(on) 850Ω max;VGS(th) 6.5V max;ID 50mA max.
14#	ML102A	11	P-MOS	Si	L54		Matched pair of devices;ΔRon 40Ω max;VGS(th)6.0V max;ID 50mA max.
15#	ML102B	11	P-MOS	Si	L54		Matched pair of devices;ΔRon 40Ω max;VGS(th)6.5V max;ID 50mA max.
16#	ML153A	11	P-MOS	Si	L71		Two common-source pairs;Rd(on)-700Ω max;VGS(th)-6.5V max;ID-50mA max.
17#	ML153B	11	P-MOS	Si	L71		Two common-source pairs;Rd(on)-700Ω max;VGS(th)-6.5V max;ID-50mA max.
18#	ML154A	11	P-MOS	Si	L72		Set of six common-source pairs;Rd(on)-700Ω max;VGS(th)-6.5V max;ID-50mA max.
19#	ML154B	11	P-MOS	Si	L72		Set of six common-source pairs;Rd(on)-700Ω max;VGS(th)-6.5V max;ID-50mA max.
20#	ML157A	11	P-MOS	Si	L73		Six devices;Rd(on)-700Ω max;VGS(th)-6.5V max;ID-50mA max.
21#	ML157B	11	P-MOS	Si	L73		Six devices;Rd(on)-700Ω max;VGS(th)-6.5V max;ID-50mA max.
22#	MTD2972	11	N-DPLØ	Si	u82		BVCBO 45V min;Pt 140mW(both sides);hFE 60-240 at Ic 10uA;VCE 5.0V.
23#	MTD2973	11	N-DPLØ	Si	u82		BVCBO 45V min;Pt 140mW(both sides);hFE 150-600 at Ic 10uA;VCE 5.0V.
24	NS7100	11	N-PL	Si	L4a		BVCBO-80V; BVCEO-60V; BVEBO-15V; hFE-2000 min.
25	RM3001	11	N-PL	Si	TO18	AØ	Darl.Ampl; Pc-1.0W max; BVCBO-80V; hFE-900 min. at Ic-1.0mA
26	RM3002	11	N-PL	Si	TO18	AØ	Photo Darl. Ampl; Pc-1.8W max; BVCBO-60V; Sens-25ua/fc
27	RM3010	11	N-PL	Si	TO18		Darl.Ampl; Pc-1.0W max; BVCBO-80V; hFE-2000 min. at Ic-30mA
28	S708*	11	N-PE	Si			Dual Chip;BVCBO-55V;BVCEO-30V;Cob-6.0pf;Po-4.0W.
29	S715*	11	N-PE	Si	TO39		Dual Chip;BVCBO-55V;BVCEO-30V;Cob-6.0pf;Po-2.5W.
30	SA102	11	N-PL	Si	TO18		Pc-.50W; BVCBO-60V max; BVCEO-30V max;hFE-5000; VCES-1.0V max.
31	SA107	11	N-PL	Si	TO18		Pc-.50W; BVCBO-60V max; BVCEO-30V max;hFE-20,000; VCES-1.0V max.
32	SA2725*	11	N	Si	L2t		Pt-.6W;Sat.Res.-300 ohms max;hFE-250 at IC-1.0mA.
33	SA2726*	11	N	Si	L2t		Pt-.6W;Sat.Res.-300 ohms max;hFE-150 at IC-1.0mA.
34	SC1600*	11	P-MOS	Si	L18b		FET;gFS-400umhos;RIS-100T;Cgs-4.0pf;VT-7V.
35	SC1601*	11	P-MOS	Si	L18b		FET;gFS-400umhos;RIS-100T;Cgs-4.0pf;VT-7V.
36	SC1625*	11	P-MOS	Si	L18b		FET;gFS-400umhos;RIS-100T;Cgs-4.0pf;VT-6V.
37#	SL302A	11	N-PE	Si	L45		Pc-600mW; VCBO-20V max; hFE-30 min at 5V; 5mA
38#	SL303A	11	N-PE	Si	L43		Pc-600mW; VCBO-35V max; hFE- 30 min at 5V; 5mA
39#	SL303B	11	N-PE	Si	L43		Pc-600mW; VCBO-30V max; hFE-25 min at 5V; 5mA
40	SP8411	11	N-PL	Si	L8		Pc-.30W;BVCBO-45V;hFE-60 min. at Ic-10uA; VCE-5.0V.
41	SP8411A	11	N-PL	Si	L8		Pc-.30W;BVCBO-60V;hFE-60 min. at Ic-10uA; VCE-5.0V.
42	SP8412	11	N-PL	Si	L8		Pc-.30W;BVCBO-45V;hFE-150 min. at Ic-10uA; VCE-5.0V.
43	SP8412A	11	N-PL	Si	L8		Pc-.30W;BVCBO-60V;hFE-150 min. at Ic-10uA; VCE-5.0V.
44	SP8413	11	N-PL	Si	L8		Pc-.30W;BVCBO-45V;hFE-60 min. at Ic-10uA; VCE-5.0V.
45	SP8413A	11	N-PL	Si	L8		Pc-.30W;BVCBO-60V;hFE-60 min. at Ic-10uA; VCE-5.0V.
46	SP8414	11	N-PL	Si	L8		Pc-.30W;BVCBO-45V;hFE-150 min. at Ic-10uA; VCE-5.0V.
47	SP8414A	11	N-PL	Si	L8		Pc-.30W;BVCBO-60V;hFE-150 min. at Ic-10uA; VCE-5.0V.
48	SP8588	11	N-PL	Si	L8		Pc-.30W;BVCBO-45V;hFE-60 min. at Ic-10uA; VCE-5.0V.
49	SP8588A	11	N-PL	Si	L8		Pc-.30W;BVCBO-45V;hFE-150 min. at Ic-10uA; VCE-5.0V.
50	SP10800	11	N-DPL	Si	TO89		BVCEO-45V,hFE-150min at 1.0mA-5V,ICBO-10nA max,NF-4.0db max
51	SP10811	11	P-DPE	Si	TO89		BVCEO-15V, hFE-35 min at 10mA-1.0V, ICBO-10nA max,Cobo-10pf max.
52	SST610	11	N-DM	Si	L3a		Darl Ampl;Pc-.50Wmax;BVCBO-60V;IC-.50Amax;hFE-12000;IC-50mA.
53#	TA-D93	11	NPN		TO5		Darlington Compound Amp;Pc-.36W;BVCBO-45V;hFE min-5000 at 1.0mA.
54#	TAB101	11	N	Ge	L64		Pt-.1W;VBE-5mV;hFE-20 min;ft-100MHz.
55#	TAD93	11	NPN		TO5		Darlington Compound Amp;PC-360mW;BVCBO-45V;hFE min-5000 at 1.0mA.
56	TI155	11	N-D	Si	L3d		Pt-3W; BVCBO-120V; BVCEO-80V;IC10A; hFE-1,200
57	UD3008	11	P	Si			BVCBO-50V;BVCEO-50V;BVEBO-50V;hFE-30 at IC-100uA;ft-6.0Mc.
58	CG1	12	N	Si	TO18		Pd-500mW;BVCEO-35V min;hFE-50 at 1mA ° 200 deg.C;fT-60Mc min.
59	2N5144*	13	NΔ	Si	TO18	AØ	Post Rad. of 300T NVT;tr-35ns,td-10ns,ts-35ns,tf-30ns,MAX;ft-250MHz min.
60	2N5276*	13	NΔ	Si	TO18	AØ	Post Rad. for ICBO-20uA max;hFE-20 min;VCE(sat)-1V max;all pulsed.
61	2N5292*	13	P	Si	TO18	AØ	Max.Rad.Level-300T-nvt;hFE-10min;tr-12ns,tf-15ns.
62	2N5417*	13	NΔ	Si	TO39	AØ	Max.Rad.-1000T nvt;Post Rad. hFE-8 pulsed;tr-18ns;ICBO-10uA;tf-60ns.
63#	BFX42*	13	N-DPE	Si	TO46	Ø	Neutron flux-1000T nvt; Post Rad. hFE-15; ICBO-1.0uA max.
64	BR100A*	13	N	Si	R50	AØ	Max.Rad.Level-500T nvt;Post Rad. hFE-25;ICBO-1.0mA.
65	BR100C*	13	N	Si	TO59	A	Max.Rad.Level-500T nvt;Post Rad. hFE-25;ICBO-1.0mA.
66	BR100E*	13	N	Si	MT50a	AØ	Max.Rad.Level-500T nvt;Post Rad. hFE-25;ICBO-1.0mA.
67	BR100F*	13	N	Si	MT50a	A	Max.Rad.Level-500T nvt;Post Rad. hFE-25;ICBO-1.0mA.
68	BR101A*	13	N	Si	R50	AØ	Max.Rad.Level-500T nvt;Post Rad. hFE-15;ICBO-1.0mA.
69	BR101C*	13	N	Si	TO59	A	Max.Rad.Level-500T nvt;Post Rad. hFE-15;ICBO-1.0mA.
70	BR101E*	13	N	Si	MT50a	AØ	Max.Rad.Level-500T nvt;Post Rad. hFE-15;ICBO-1.0mA.
71	BR101F*	13	N	Si	MT50a	A	Max.Rad.Level-500T nvt;Post Rad. hFE-15;ICBO-1.0mA.
72	BR200A*	13	N	Si	MT50a	AØ	Post Radiation of 100T nvt;hFE-15 min;at VCE-5.0V.
73	BR200B*	13	N	Si	MT50a	AØ	Post Radiation of 100T nvt;hFE-15 min;at VCE-5.0V.
74	BR201A*	13	N	Si	MT50a	A	Post Radiation of 100T nvt;hFE-10 min;at VCE-5.0V.
75	BR201B*	13	N	Si	MT50a	A	Post Radiation of 100T nvt;hFE-10 min;at VCE-5.0V.
76	FT40*	13	N-DPE	Si	TO46		Pd-.30W Radiation Resistance-1.0f nvt.
77	NS9608*	13	N-PE	Si	TO60		After irradiation of 100T n/cm.sq.;ICBO at 15V-30uA;hFE-10 min.
78	NS9609*	13	N-PE	Si	TO61		After irradiation of 100T n/cm.sq.;ICBO at 20V-250uA;hFE-8.0 min.
79	NS9609A*	13	N-PE	Si	TO61		Post Radiation of 300T NVT;ICBO at 20V-250uA;hFE-8.0 typ.
80	NS9726*	13	N-PE	Si	RO38w		After irradiation: ICBO at 15V-.10uA;Ft-600Mc;hFE-20 min.
81	RT10	13	N	Si	TO18		Max Rad Level 1000T nvt;Post Rod Vp-10Vmax;IDSS-30%max;gfs-25%.
82	RT20	13	N-MOS	Si	TO18		Max Rad Level 1000T nvt;Post Rod Vp-13Vmax;ΔIDSS-60%max.
83	V120RH*	13	NPL	Si	ZA15		All parameters measured after 10kT nvt Irradiation
84	PT13	14	N-PL	Si	TO46	AØ	Press 1.0psid nom;temp. coeff. ± .05V/°C;hFE 10 nom;BVCEO 120.
85	PT23	14	N-PL	Si	TO46	AØ	Press 2.0psid nom;temp.coeff.±.05V/°C;hFE 10 nom;BVCEO 120.
86	PT53	14	N-PL	Si	TO46	AØ	Press 5.0psid nom;temp.coeff.±.05V/°C;hFE 10 nom;BVCEO 120.
87	PT-H3	14	N-PL	Si	TO46	AØ	Press .50psid nom;temp.coeff.±.05V/°C;hFE 10 nom;BVCEO 120.
88	PT-L3	14	N-PL	Si	TO46	AØ	Press .10psid nom;temp.coeff.±.05V/°C;hFE 10 nom;BVCEO 120.
89	PT-M3	14	N-PL	Si	TO46	AØ	Press .25psid nom;temp.coeff.±.05V/°C;hFE 10 nom;BVCEO 120.
90	M23P-X509	15	N-PE	Si	u70	T	2N3975 chip.
91	M23P-X516	15	N-PE	Si	u70	T	2N3976 chip.
92	TH2369	15	N-PEΔ	Si	u60	TØ	BVCBO40V;BVCEO15V;BVEBO4.5V;Ic500mAmax;hFE40min at Ic10mAand VCEVCE5.0V.
93	TH3638	15	P-PE	Si	u48	TØ	BVCBO25V;BVCEO25V;BVEBO4.0V;Ic500mAmax;hFE30min at Ic50mAandVCE10V.
94	TH4258	15	P-PEΔ	Si	u61	TØ	BVCBO 12V;BVCEO 12V;BVEBO 4.5V;IC 50mA max;hFE 30 min at IC 10mA and VCE 3.0V.
95	2N3836	16	NΔ	Si	L35b		Pd 1.0Wfreeair;VCB1O 80V; IC 7Amax; IEB1O 1.0uA max;Ton 500ns;Toff 1.0us.
96	2N3837	16	NΔ	Si	L35b		Pd 1.0W free air;VCB1O 100V;Ic 7A max;IEB1O 1.0uA max;Ton 500ns;Toff 1.0us.
97#	BD262L	16	P-E	Si	TO126	A	Pt 36W;BVCBO 45V;BVCEO 45V;hFE 750;ft 7.0MHZ at IC 2A.
98#	BD263L	16	N-E	Si	TO126	A	Pt 36W;BVCBO 60V;BVCEO 45V;hFE 750;ft 7.0MHz at IC 2A.
99#	BD264	16	P-E	Si	Y220b	A	Pt 40W;BVCBO 60V;BVCEO 60V;hFE 1.0k;ft 7.0MHZ at IC 2.0
100#	BD264A	16	P-E	Si	Y220b	A	Pt 40W;BVCBO 80V;BVCEO 80V;hFE 1.0k;ft 7.0MHZ at IC 2.0
101#	BD264B	16	P-E	Si	Y220b	A	Pt 40W;BVCBO 100V;BVCEO 100V;hFE 1.0k;ft 7.0MHZ at IC 2A
102#	BD264L	16	P-E	Si	Y220b	A	Pt 40W;BVCBO 45V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 3A
103#	BD265	16	N-E	Si	Y220b	A	Pt 40W;BVCBO 80V;BVCEO 60V;hFE 1.0k;ft 7.0MHZ at IC 2.0
104#	BD265A	16	N-E	Si	Y220b	A	Pt 40W;BVCBO 100V;BVCEO 80V;hFE 1.0k;ft 7.0MHZ at IC 2.0
105#	BD265B	16	N-E	Si	Y220b	A	Pt 40W;BVCBO 120V;BVCEO 100V;hFE 1.0k;ft 7.0MHZ at IC 2A
106#	BD265L	16	N-E	Si	Y220b	A	Pt 40W;BVCBO 60V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 3A
107#	BD266L	16	P-E	Si	Y220b	A	Pt 55W;BVCBO 45V;BVCEO 45V;hFE 750;ft 7.0MHZ at IC 4A
108#	BD267L	16	N-E	Si	Y220b	A	Pt 55W;BVCBO 60V;BVCEO 45V;hFE 750;ft 7.0MHZ at IC 4A
109#	BDX62L	16	P-E	Si	TO3	CØ	Pt 90W;BVCBO 45V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 4A
110#	BDX63L	16	N-E	Si	TO3	CØ	Pt 90W;BVCBO 60V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 4A

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

13. MISCELLANEOUS TRANSISTORS

IN ORDER OF (1) CATEGORY & (2) TYPE No.

LINE No.	2 TYPE No.	1 CATEGORY USE	STRUCTURE	MAT	DWG # Y200 s/a TO200 Ser.	LEAD CODE	DESCRIPTION
1#	BDX64L	16	P-E	Si	TO3	CØ	Pt 117W;BVCBO 45V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 6A
2#	BDX65L	16	N-E	Si	TO3	CØ	Pt 117W;BVCBO 60V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 6A
3#	BDX66L	16	P-E	Si	TO3	CØ	Pt 150W;BVCBO 45V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 12A
4#	BDX67L	16	N-E	Si	TO3	CØ	Pt 150W;BVCBO 60V;BVCEO 45V;hFE 1.0k;ft 7.0MHZ at IC 12A
5	D12X012	16	N-PL	Si	L28		hFE 9000 min. at 1.0mA;BVCBO 100V.
6	D16P2	16	N	Si	L3e		hFE 7.0k-15k typ;Pt 320mW;Zin 500k;BVCEO 12V.
7	D28C3	16	N†	Si	X51	F	hFE 90k min;VCE(sat) 1.5V;IC 500mA;Pt 1.0W.
8	D28C8	16	N†	Si	X51	F	Pt 1.0W;hFE 40k-120k;VCE(sat) 1.5V;IC 500mA.
9	L14B1	16	NΔ	Si	TO98		Photo Darlington;IL 250mA max;Pt 200mW;ID 100nA max;tr 250us max;tf 150us max.
10	L14B2	16	NΔ	Si	TO98		Photo Darlington;IL 250mA max;Pt 200mW;ID 100nA max;tr 250us max;tf 150us max.
11	L14B3	16	NΔ	Si	TO98		Photo Darlington;IL 250mA max;Pt 200mW;ID 100nA max;tr 250us max;tf 150us max.
12	L14B4	16	NΔ	Si	TO98		Photo Darlington;IL 250mA max;Pt 200mW;ID 100nA max;tr 250us max;tf 150us max.
13	L15C1	16	NΔ	Si	R154		Photo Darlington;I 250mA max;Pt 300mW;ID 100nA max;tr 75us typ.;tf 45us typ.
14	L15C2	16	NΔ	Si	R154		Photo Darlington;I 250mA max;Pt 300mW;ID 100nA max;tr 75us typ.;tf 45us typ.
15	L15D1	16	NΔ	Si	u90		Photo Darlington;I 250mA max;Pt 300mW;ID 100nA max;tr 75us typ.;tf 45us typ.
16	L15D2	16	NΔ	Si	u90		Photo Darlington;I 250mA max;Pt 300mW;ID 100nA max;tr 75us typ.;tf 45us typ.
17	MCH2005F	16	Δ		L76		Pd 500mW;hFE 1.0k min. at IC 1.0A,VCE 10V;BVCBO 50V;BVCEO 30V;ton 350ns max.
18#	SI345P	16	P-DPL	Si	ZA17		Pt 600mW;BVCBO 50V;BVCEO 35V;hFE 300 min;BVEBO 12V.
19#	SI346P	16	P-DPL	Si	ZA17		Pt 600mW;BVCBO 30V;BVCEO 20V;hFE 2.0k min;BVEBO 12V.

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

NOTES

We feel you may have some useful comments which deserve consideration for future editions.

SECTION 14. MANUFACTURERS CODES, NAMES & ADDRESSES

Manufacturers in order of code letters

SPACE-SAVERS UTILIZED IN THIS MANUFACTURER LISTING

(*) — Manufacturer not a current commercial producer of transistors — address is that last recorded in our files. Company may or may not be active at this address.

see (code) — Indicates one or more of the following changes have occurred since original letter code was used: (1) Change of code; (2) Change of manufacturer name; (3) Purchase by or combination with another manufacturer.

(*)	ADV	—	Advanced Research Association, Box 68, Kensington, Maryland 20795
	AEG	—	Allgemeine Elektricitats-Gesellschaft — see (ALGG)
	AEIE	—	Associated Electronics Industries — see (AEIL)
	AEIL	—	A.E.I. Semiconductors, Ltd., Carholme Rd., Lincoln, England
	AKER	—	A/S Akers Electronics, Knudsrudvn, 3191 Horten, Norway
	ALGG	—	AEG-Telefunken, D-71 Heilbronn, Postfach 1042, West Germany
	AMC	—	Ampower Semiconductor Corp., 375 Kings Highway, Smithtown, Long Island, New York 11787
	AME	—	Advanced MicroElectronics, Inc. — see (APX)
(*)	AMF	—	American Machine & Foundry, Semicon. Dept., P.O. Box 128, Vandalia, Ohio 45377
(*)	AMI	—	American Micro Systems, Inc., 3800 Homestead Road, Santa Clara, California 95051
	AMP	—	Amperex — see (APX)
	ANOA	—	Anodeon Semiconductor Division — see (SERA)
	APX	—	Amperex Electronic Corp., Solid State & Active Devices Div., Slatersville, Rhode Island 02876
	ASMB	—	Associated Semiconductor Manufacturers — see (MULB)
	ATLB	—	Associated Transistor, Ltd. — see (MULB)
	AVA	—	Avantek, Inc., 3175 Bowers Ave., Santa Clara, California 95051
	BACE	—	Bendix — see (BEN)
	BELI	—	Bharat Electronics, Ltd., Jalahalli P.O., Bangalore 13, South India
	BEM	—	Bogue — see (BOG)
(*)	BEN	—	Bendix Semiconductor Div., South Street, Holmdel, New Jersey 07733
(*)	BNT	—	Burns and Towne, Inc., 18-36 Granite St., Haverhill, Massachusetts 01830
(*)	BOG	—	Bogue Electric Manufacturing Co., 100 Pennsylvania Ave., Paterson, New Jersey 07503
	BRDB	—	G. & E. Bradley — see (LUCB)
	BRUB	—	Brush Clevite — see (ITTB)
	BTHB	—	British Thomson-Houston — see (AEIL)
(*)	CBS	—	CBS Electronics, 900 Chelmsford Street, Lowell, Massachusetts 01851
(*)	CDLF	—	Compagnie Industrielle Francaise Des Tubes Electroniques, 50 Rue J.P. Timbaud, Courbevoie 92, France
	CEI	—	Calvert Electronics International, Inc., 220 E. 23rd St., New York, New York 10010
	CLA	—	Clairex Electronics, Div. of Clairex Corp., 560 South 3rd Ave., Mt. Vernon, New York 10550
	CLE	—	Clevite — see (ITT)
(*)	CPC	—	C. P. Clare Transistor Corp., 260 Glen Head Rd., Glen Head, Long Island, New York 11545
	CRI	—	Crimson Semiconductor, Inc., 440 Park Avenue South, New York, New York 10016
	CSC	—	Clark Semiconductors — see (NSC)
	CSI	—	Carter Semiconductor, Inc., 6901 Jericho Turnpike, Syosset, Long Island, New York 11791
	CSR	—	CSR Industries, Inc., Semiconductor Div., 59 Central Ave., E. Farmingdale, New York 11735
	CTR	—	Communications Transistor Corp., Affiliate of Eimac/Varian, 301 Industrial Way, San Carlos, Calif. 94070
	DEL	—	Delco Electronic Div., General Motors Corp., 700 E. Firmin St., Kokomo, Indiana 46901
	DETM	—	Delsa-Toshiba, S. A. Calzada Aurora No. 303, Cuautitlan, Edo de Mexico
(*)	DIC	—	Dickson Electronics Corp., 310 So. Wells Fargo Ave., Scottsdale, Arizona 85252
(*)	EBAS	—	Ebauches S. A., Faubourg Hopital 1, Neuchatel, Switzerland
(*)	EEVB	—	English Electric Valve Company, Waterhouse Lane, Chelmsford, England
(*)	ELBR	—	Electronica Nacional Braileira, 525 Rua Thiers, Sao Paulo, Brazil
(*)	ELE	—	Electromation Company, 4254 Glencoe Ave., Venice, California 90291
	ELMA	—	Elcoma, 67-71 Mars Road, Lane Cove N.S.W. 2066, Australia
	EMLS	—	Emihus Microcomponents, Ltd., Clive House, 12-18 Queens Rd., Weybridge, Surrey, England
	ESI	—	Electro-State Industries, Inc., 118 West 22nd Street, New York, New York 10011
	ETC	—	Electronic Transistors Corp., 153-13 Northern Blvd., Flushing, New York 11354
	ETIF	—	Echanges Techniques Internationaux, 73, Avenue Charles de Gaulle, 92202 Neuilly Sur Seine, France
	FCAJ	—	Fujitsu, Ltd., No. 1015, Kamikodanaka, Kawasaki, Japan
	FERB	—	Ferranti, Ltd., Gem Mill, Chadderton, Oldham, Lancashire, England
(*)	FRA	—	Franel Corporation, 8 Ferry Street, South River, New Jersey 08882

MANUFACTURERS AND THEIR ADDRESSES (Cont'd)

	FSC	— Fairchild Semiconductor Corp., 313 Fairchild Drive, Mountain View, California 94040
(*)	FTC	— Fanon Transistor Corp., 439 Frelinghuysen Ave., Newark, New Jersey 07114
	FTHF	— French Thomson-Houston Semiconductor — see (THCF—
	GECB	— General Electric, Ltd. — see (MULB)
(*)	GEM	— Great Eastern Manufacturing Co., 163 Remsen Ave., Brooklyn, New York 11212
	GESY	— General Electric Co., Semicon. Prod. Dept., Electronic Comp. Div., Electronics Pk., Bldg. 7, 230, Syracuse, N.Y. 13201
	GIC	— General Instrument Corp., P.O. Box 600, Hicksville, New York 11802
	GME	— General Micro-Electroncis — see (PHIL)
	GPD	— Germanium Power Devices Corp., Shetland Industrial Center, Bldg. 4, York St., P.O. Box 65, Shawsheen Village Station, Andover, Mass. 01810
	GSE	— General Semiconductor Industries, Inc., 2001 W. 10th Place, P.O. Box 3078, Tempe, Arizona 85281
	GSI	— General Sensors, Inc., P.O. Box 798, Garland, Texas 75040
	GTC	— General Transistor — see (GIC)
	HAC	— Hughes Aircraft — see (HUG)
	HITJ	— Hitachi, Ltd., Semicon. & IC Div., 1450 Josuihonmachi, Kodaira City, Tokyo, Japan
(*)	HIVB	— Hivac, Ltd., Stonefield Way, Victoria Road, South Ruislip, England
	HON	— Honeywell, Inc., — see (SOD)
	HPA	— Hewlett Packard, 640 Page Mill Rd., Palo Alto, California 94304
	HSC	— Helios Semiconductor, 11762 Western Avenue, P.O. Box 293, Stanton, California 90680
(*)	HSD	— Hoffman Semiconductor, 1001 Arden Drive, El Monte, California 91731
	HSDC	— Hoffman Semiconductor — see (HSD)
(*)	HUG	— Hughes Aircraft Company, P.O. Box 278, Newport Beach, California 92663
	HZN	— Horizon Semiconductors Corp., 3001 Red Hill Avenue, Costa Mesa, California 92626
	IDC	— International Diode Corp., 90 Forrest Street, Jersey City, New Jersey 07304
	IDI	— International Devices, Inc., 3370 Livonia Avenue, Los Angeles, California 90034
	INL	— Intersil, Inc., 10900 No. Tantau Avenue, Cupertino, California 95014
(*)	INRC	— International Rectifier Corp., 233 Kansas Street, El Segundo, Californai 90245
	INTG	— Intermetall, Halbleiterwerk der Deutsche ITT Ind. GmbH, 78 Freiburg im Breisgau, Hans-Bunte-Strasse 19, Germany
(*)	ITC	— Industro Transistor Corp., 35-10 36th Ave., Long Island City, New York 11106
	ITT	— ITT Semiconductors, 3301 Electronics Way, West Palm Beach, Florida 33407
	ITTB	— ITT Semiconductors, Footscray, Sidcup, Kent, England
	KER	— Kertron, Inc., 7516 Central Industrial Drive, Riviera Beach, Florida 33407
	KMC	— KMC Semiconductor, Parker Rd., R.D. 1, Long Valley, New Jersey 07853
(*)	KOKJ	— Kobe Kogyo Corp., Hyogo-ku, Kobe, Japan
(*)	LCTF	— Laboratoire Central de Telecommunications, 46 Avenue de Breteuil, Paris 7e, France
	LTTF	— Lignes Telegraphiques and Telephoniques, Conflans-Sainte-Honorine (Seine Et Oise), France
	LUCB	— The Lucas Electrical Co., Ltd., Mere Green Rd., Sutton Coldfield, B75 5BN, Warwickshire, England
(*)	MAL	— P. R. Mallory & Co., Indianapolis, Indiana 62832
	MATJ	— Matsushita Electronics Corp., Kotari Yakemachi 1, Nagaokakyo City, Kyoto, Japan
	MEHK	— Micro Electronics, Ltd., 38 Hung To Road, Kwun Tong, Kowloon, Hong Kong
(*)	MIC	— Microwave Associates, Burlington, Massachusetts 01803
	MIFI	— Microfarad — see (MISI)
	MIN	— Honeywell — see (SOD)
	MISI	— Mistral S.p.A., Via Melchiorre Gioia 72, 20125 Milano, Italy
	MITJ	— Mitsubishi Electric Corp., 2-12 Marumouchi, Chiyoda-ku, Tokyo, Japan
	MOTA	— Motorola Semiconductor Products, 5005 E. McDowell Rd., Phoenix, Arizona 85008
(*)	MSC	— MicroSemiconductor Corp., 11250 Playa Court, Culver City, California 90230
	MULB	— Mullard Ltd., Mullard House, Torrington Place, London WC1E, England
	MWS	— Microwave Semiconductor Corp., 100 Schoolhouse Rd., Somerset, New Jersey 08873
(*)	NAC	— National Aircraft Corp., 3411 Tulare Ave., Burbank, California 91502
	NAS	— National Semiconductor — see (NSC)
	NASB	— North American Semiconductor Co., Inc., 76 Eureka Square Center, Pacifica, California 94044
	NECJ	— Nippon Electric Company, Ltd., 1753 Shimounumaba, Kawasaki City, Japan
	NIPJ	— Nippon Electric Company — see (NECJ)
	NJS	— New Jersey Semiconductor Products, Inc., 20 Commerce Street, Springfield, New Jersey 07081
(*)	NORC	— Northern Electric Co., Advance Devices Centre, 75 Moodie Dr., Ottawa, Ontario, Canada
	NPC	— Nucleonic Products Co., Inc., 6660 Variel Ave., Canoga Park, California 91303
	NSC	— National Semiconductor Corp., 2900 Semiconductor Dr., Santa Clara, California 95051
	NTR	— National Transistor Corp., 1400 Stierlin Rd., Mountain View, California 94043

MANUFACTURERS AND THEIR ADDRESSES (Cont'd)

SPACE-SAVERS UTILIZED IN THIS MANUFACTURER LISTING

(*) — Manufacturer not a current commercial producer of transistors — address is that last recorded in our files. Company may or may not be active at this address.

see (code) — Indicates one or more of the following changes have occurred since original letter code was used: (1) Change of code; (2) Change of manufacturer name; (3) Purchase by or combination with another manufacturer.

	NTLB	— Newmarket Transistors, Ltd., Exning Rd., Newmarket, Cambridge, England
	PHIC	— Philips Electron Devices, Ltd., 110 Vanderhoof Ave., Toronto 17, Ontario,Canada
(*)	PHIL	— Philco Corp., Micro-Electronics Div., 2920 San Ysidro Way, Santa Clara, California 95051
	PHIN	— N.V. Philips Gloeilampenfabrieken, Product Div. Elcoma, Bldg. B.F., Eindhoven, Netherlands
	PIHS	— Piher International, APATADO CORREOS, 53 Badalona, Spain
	PLSB	— Plessey Semiconductors, Cheney Manor, Swindon, Wiltshire, England
	PPC	— Power Physics Corp., Industrial Way West, P.O. Box 626, Eatontown, New Jersey 07724
	PRE	— Precision Semiconductors, Inc., 23 So. Warren Street,Trenton, New Jersey 08608
	PSI	— TRW Semiconductor — see (TRW)
	PTI	— Power Tech, Inc., 9 Baker Court, Clifton, New Jersey 07011
(*)	QDC	— Qualidyne Corporation, 1230 Bordeaux Drive, Sunnyvale, California 94086
(*)	RAU	— The Rauland Corp., 4245 No. Knox Avenue, Chicago, Illinois 60630
	RCA	— RCA Corporation, RCA Solid State Div., Route 202, Somerville, New Jersey 08876
	RCAS	— R.C.A. — see (RCA)
	RHE	— Rheem Semiconductor — see (RAYN)
	ROSG	— Dr. Ing. Rudolph Rost, Ubbenstrasse 21, Hannover 1, Germany
	RTCF	— R.T.C. La Radiotechnique-Compelec, 130, Ave. Ledru-Rollin, 755.40 Paris Cedex 11, France
	RTN	— Raytheon Semiconductor, 350 Ellis Street, Mountain View, California 94042
	SAKJ	— Sanken Electric Co., Ltd., 1-22-8 Nishi-Ikebukuro, Toshima-ku, Tokyo, Japan
	SANJ	— Tokyo Sanyo — see (TSAJ)
	SCA	— Semicoa, 333 McCormick Ave., Costa Mesa, California 92626
	SDE	— Semiconductor Devices, 970 No. Main Street, Orange, California 92667
	SEI	— Semiconductors, Inc., 14 Charles Street, Metuchen, New Jersey 08840
	SELG	— Standard Elektrik Lorenz AG — see (INTG)
(*)	SEM	— Semi-Elements, Inc., Saxonburg Blvd., Saxonburg, Pennsylvania 16056
	SEN	— Sensitron Semiconductor, 221 W. Industry Court, Deer Park, New York 11729
(*)	SERA	— Servex Semiconductor Div., P.O. Box 26, Oakleigh, Victoria 3166, Australia
	SES	— Semitronics Corp., 265 Canal Street, New York, New York 10013
	SGAI	— SGS—ATES Componenti Elettronici S.p.A., Via C. Olivetti 1, 20041 Agrate Brianza, Italy
	SHEJ	— Shindengen Electric Mfg. Co., Ltd., New Ohtemachi Bldg., 2-1, 2-chome, Ohtemachi, Chiyoda-ku, Tokyo 100, Japan
	SIEG	— Siemens AG, Balanstrasse 73, 8 Munich 80, West Germany
	SIHG	— Siemens & Halske Aktiengesellschaft — see (SIEG)
	SIX	— Siliconix, Inc., 2201 Laurelwood Rd., Santa Clara, Califiornia 95054
	SLCB	— Semitron Ltd., Cricklade, Wiltshire, England
	SLD	— Solid State Industries, Inc., 1060 Thomas Jefferson St., N.W., Washington, D. C. 20007
	SOD	— Solitron Devices, Inc., 1177 Blue Heron Blvd., Riviera Beach, Florida 33304
	SODI	— Solitron Devices, Inc., 8808 Balboa Avenue, San Diego, California 92123
(*)	SOI	— Semi-Onics, 4 Broadway, Lowell, Massachsuetts 01854
	SONY	— SONY Corporation, Atsugi Plant, 14-1 Asahi-sho 4, Atsugi-shi, Kanagawa-ken, 243, Japan
	SPC	— Solid Power Corp., 440 Eastern Pkwy, Farmingdale, New York 11735
	SPR	— Sprague Electric Company, Pembroke Rd., Concord, New Hampshire 03301
	SPRJ	— Sharp Corp., Industrial Inst. Div., Yamato-Koriyama, Nara, Japan
	SSCF	— Societe Industrielle De Liaisons Electriques, 30 Av. Republique, 92 Villejuif, France
	SSD	— Sperry Semiconductor — see (SOD)
	SSE	— Solid State Electronics Co., 15321 Rayen Street, Sepulveda, California 91343
	SSI	— Solid State Devices, Inc., 14830 Valley View Ave., La Mirada, California 90638
	SSS	— Solid State Scientific, Inc., Montgomeryville Industrial Center, Montgomeryville, Pa. 18936

MANUFACTURERS AND THEIR ADDRESSES (Cont'd)

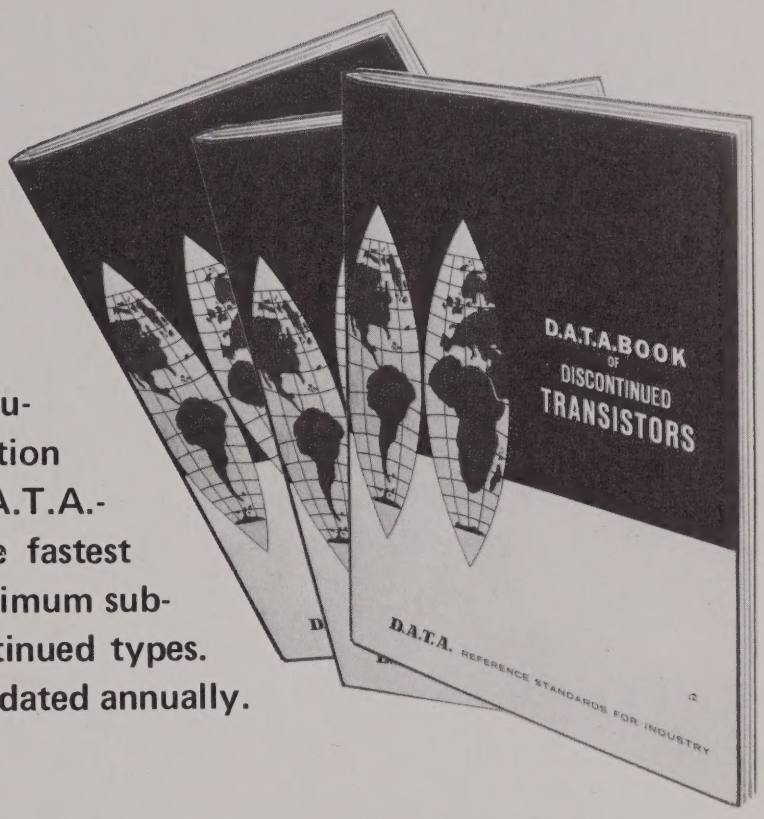
	SST	— Solid State, Inc., 46 Farrand Street, Bloomfield, New Jersey 07003
	STAG	— Tekade — see (TKAD)
	STC	— Silicon Transistor Corp., Katrina Rd., Chelmsford, Massachusetts 01824
(*)	STCA	— Standard Tels. & Cables Pty., Ltd., 252 Botany Rd., Alex., Sydney, Australia
	STI	— Semiconductor Technology, Inc., 124-14 22nd Avenue, College Point, New York 11356
	STL	— Stow Laboratories, Inc., Barton Road, Stow, Massachusetts 01775
	SWT	— Swampscott Electronics Co., 41 Spinale Rd., Swampscott, Massachusetts 01907
(*)	SYL	— Sylvania Semiconductor, 100 Sylvan Road, Woburn, Massachusetts 01801
	TADI	— Tadiran, Israel Electronics Industries, Ltd., 3 Derech Hashalom (P.O. Box 648), Tel-Aviv 61000, Israel
	TAGS	— Transistor AG, Hohlstrasse 610/612, CH-8048, Zurich, Switzerland
	TCY	— Teledyne Crystalonics, Inc., 147 Sherman St., Cambridge, Massachusetts 02140
	TEC	— Transitron Electronic Corporation, 168 Albion St., Wakefield, Massachusetts 01880
(*)	TEK	— Trans-Tek Manufacturing Co., 4405 So. Clinton Ave., South Plainfield, New Jersey 07080
	THCF	— Thomson CSF, Div. Semiconducteurs SESCOSEM, 50, Rue Jean Pierre Timbaud, BP 120, 92403 Courbevoie, France
	THOB	— Thorn-AEI — see (AEIL)
	TII	— Texas Instruments, Inc., Components Group, P.O. Box 5012, Dallas, Texas 75222
	TIIB	— Texas Instruments, Ltd., Manton Lane, Bedford, England
	TIIC	— Texas Instruments, Inc., 280 Center St., East Richmond Hill, Ontario, Canada
	TIID	— Texas Instruments Deutschland GmbH, 8050 Freising, Haggertystrasse 1, Germany
	TIIF	— Texas Instruments France, Villeneuve, Loubet, France
(*)	TKAD	— Tekade, Schleissfach 870, Nurnberg 2, Germany
	TOSJ	— Tokyo Shibaura Electric Co., 1 Komukaitoshiba Cho, Kawasaki, Japan
	TOYJ	— R-OHM Corp., Sub. of Toyo Electronics Ind. Corp., 16931 Milliken Ave., Irvine, California 92705
	TRW	— TRW Semiconductors, Inc., 14520 Aviation Blvd., Lawndale, California 90260
	TSAJ	— Tokyo Sanyo Electric Co., Ltd., Semicon. Div., Oizumimachi, Oragun Gumma, Japan
	TSC	— Teledyne Semiconductor, 1300 Terra Bella Avenue, Mountain View, California 94043
	TSE	— Tung-Sol — see (TUNE)
	TTKJ	— Tokyo Tsushin — see (SONY)
(*)	TUNE	— Tung-Sol Electric, 545 North Arlington Ave., East Orange, New Jersey 07017
(*)	TYC	— Tyco Semicon. Corporation, Bear Hill, Waltham, Massachusetts 02154
	UNI	— Unitrode Corporation, 580 Pleasant Street, Watertown, Massachusetts 02712
	UPI	— UPI Semiconductor, Div. of United-Page, Inc., 481 Getty Ave., Paterson, New Jersey 07503
	USC	— Unisem Corporation — see (SOD and SODI)
(*)	UST	— U. S. Transistor Corporation, 149 Eileen Way, Syosset, New York 11791
	UTS	— Uni-Tran Semiconductor Corp., 1275 Bloomfield Avenue, Fairfield, New Jersey 07006
	VAC	— Vactec, Inc., 2423 Northline Industrial Blvd., Maryland Heights, Missouri 63043
	VALG	— Valvo GmbH, Dept. DWE, P.O. Box 993, D2000, Hamburg 1, Germany
(*)	VANN	— Van Der Heen NV, Maaniweg 156, The Hague, Netherlands
	VSS	— Vector Solid State Labs. — see (USC)
	WAB	— Walbern Devices, Inc., 1818 E. Elizabeth Avenue, Linden, New Jersey 07036
(*)	WEC	— Western Electric Company, Marion & Vine Streets, Laureldale, Pa. 19605
	WESY	— Westinghouse Electric Corporation, Semicon. Dept., Youngwood, Pa. 15697
(*)	WTC	— Western Transistor Corporation, 11518 Federal Drive, El Monte, California 91731
(*)	YECJ	— Yaou Electric Company, 1116 Suenaga, Kawasaki, Kanagawa, Japan

NOTES

We feel you may have some useful comments which deserve consideration for future editions.

How to research obsolete types

3 in three fields



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  - Fast Recovery (⩾10 Amps)
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  - Germanium Power Amplifier (⩾5 Amps)
  - Silicon Power Amplifier (⩾ 5 Amps)
  - Germanium/Silicon Switching (⩾5 Amps)
- SCRs – Reverse Blocking
  - Low Current (10 – 49 Amps)
  - Medium Current (50 – 199 Amps)
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